

1538. CURRIE, R. D. When Should a Coal Mine Be Classed as Gassy? Proc. Coal Min. Inst. America, 1941, pp. 71-74.
1539. ———. Disc. of "The Need for More Definite Knowledge of Methane Content in the Air Than Can Be Shown by a Flame Safety Lamp, and the Value of This Information in Rearranging Air Splits," by G. S. McCaa. Proc. Mine Insp. Inst. Am., 1933, pp. 90-93.
1540. ———. Disc. of "Organized Safety in the Anthracite Mines of the Susquehanna Collieries Co.," by C. G. Brehm. Trans. AIME, Coal Div., 1940, pp. 137-138.
- . See Items 2633, 2634.
- CURRIER, L. W. See Item 791.
- DALE, GEORGE K. See Items 7667-7669.
- DALLAVALLE, J. M. See Item 6836.
1543. DALZELL, R. C., AND PERRY, HARRY. Impact of Atomic Energy on Fossil Fuels. ASME Paper 56-FU-7 for Solid Fuels Cong. (AIME-ASME), Washington, D.C., Oct. 24-25, 1956, 20 pp.
- DAME, P. A. See Item 3732.
- DAMICK, A. See Item 3726.
- DAMICK, A. D. See Items 5135, 8380.
1545. DAMON, G. H. Chemical Engineering in the Explosives Industry. Chap. in Chemical Engineering in Industry. AICE, New York, N.Y., 1958, pp. 136-159.
1546. ———. Rocket Fuels. Chap. in Marks' Mechanical Engineers Handbook, McGraw-Hill Book Co., Inc., New York, N.Y., 6th ed., 1958, p. 7-48-7-51.
- . See Items 3082, 3274, 3568, 4570, 7804-7806, 8008, 8009.
1547. DAMON, GLENN H., AND LEWIS, BERNARD. Sec. 7. Fuels and Furnaces. Rocket Fuels. Marks' Mech. Eng. Handbook, McGraw-Hill Book Co., New York, N.Y., 1951, pp. 800-802.
1548. DANE, C. H., KENNEDY, H. S., AND LOTT, F. S. Statements on Mineral Resources. Natural Gas. Chap. in Mineral Position of the United States. Mineral Resources Economic Subcommittee, Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess., 1947, pp. 269-273.
- DANKO, J. A. See Item 5047.
- DARBY, W. J. See Items 5817, 5820.
1549. DARE, W. L. Underground Uranium Mining on the Colorado Plateau. United Nations, Peaceful Uses of Atomic Energy, Proc. 2d Internat. Conf. Geneva, vol. 3, September 1958, pp. 24-31; United Nations Publication, Sales No. : 58.IX.2, vol. 3.
- DARNER, R. R. See Item 1881.
- DAS GUPTA, A. K. See item 1141.
1550. DASHIER, JOHN. Disc. of "The Law of Crushing," by John W. Bell. Trans. AIME, Metal Min. and Mill. Meth., vol. 153, 1943, pp. 317-318.
1551. DASHER, JOHN, AND RALSTON, O. C. New Methods of Cleaning Glass Sands. Bull. Am. Ceram. Soc., vol. 20, June 1941, pp. 187-195.
1552. DASHIER, JOHN, NORMAN, JAMES, AND RALSTON, O. C. Sticky-Surface Concentration of Gravel-Size Minerals. AIME, Tech. Pub. 1537, Min. Technol., vol. 6, 1942, 6 pp.; Trans. AIME, Met. Min. and Mill. Meth., vol. 153, 1943, pp. 557-562; Canadian Min. Jour., vol. 63, 1942, pp. 781-784; Min. Mag. (London), vol. 58, February 1943, pp. 113-116.
- DAVENPORT, S. J. See Items 5393, 6821-6823.
1541. CURRIER, L. W., GWINN, G. R., AND WAGGAMAN, W. H. Statements on Mineral Resources. Graphite. Chap. in Mineral Position of the United States. Mineral Resources Economic Subcommittee, Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess., 1947, pp. 247-249.
1542. CURTIS, C. E. The Electrical Dewatering of Clay Suspensions. Part I. Jour. Am. Ceram. Soc., vol. 14, March 1931, pp. 219-263.
- CURTIS, N. M., JR. See Item 3265.
- CURTIS, R. W. See Item 3152.
- CUSHMAN, R. V. See Items 3551-3554.
- CUSTRED, U. K. See Item 6508.
- D
- DAVIDSON, J. M. See Item 1215.
1553. DAVIDSON, J. M., BERK, A. A., CONLEY, JOHN E., AND PARTRIDGE, E. P., Potash From Polyhalite. Relation Between Calcination Conditions and Extraction Behavior. Ind. Eng. Chem., vol. 29, April 1937, pp. 475-482.
1554. DAVIES, J. F. Haulage Ranks Second Among Coal-Mine Hazards. Nat. Safety News, vol. 25, April 1932, p. 23.
1555. ———. Disc. of "Coal Bumps," by J. F. Bryson. Proc. Mine Insp. Inst. America, 1934, pp. 33-35, 38.
- DAVIES, M. H. See Items 3036, 3488.
- DAVIES, R. S. See item 983.
1556. DAVIS, O. A. Peat as Fuel. 8th Internat. Cong. Appl. Chem., vol. 20, 1912, pp. 707-709.
1557. ———. Possible Substitute for Imported Vandyke or Cassell Browns From Deposits in United States. Chem. Eng., vol. 23, 1916, pp. 193-194.
1558. DAVIS, C. W. Analytical Notes. Canadian Jour. Res., vol. 16B, 1938, pp. 227-229.
1559. ———. Assaying for Platinum. Eng. Min. Jour., vol. 118, July 12, 1924, pp. 59-60.
1560. ———. Beneficiation of Iron Ore Grows in Importance. Eng. Min. Jour., vol. 140, February 1945, pp. 119-122.
1561. ———. The Composition and Age of Uranium Minerals From Katanga, South Dakota, and Utah. Am. Jour. Sci., vol. 11, March 1926, pp. 201-218; vol. 12, June 1926, pp. 557-558.
1562. ———. Determination of Soluble Sulphides in Gold-Silver Ores. Analyst, No. 29, 1920, pp. 20-21.
1563. ———. Determining Silica in Uranium Ores. Eng. Min. Jour., vol. 108, 1919, p. 411.
1564. ———. Geological Significance of Magnetic Properties of Minerals. Econ. Geol., vol. 30, No. 8, September-October 1935, pp. 655-662.
1565. ———. The Glow Test for Metals of the Platinum Group. Jour. Franklin Inst., vol. 203, May 1927, pp. 679-699.
1566. ———. Letter to Editor Concerning H. S. Hatfield's Discussion of "Some Observations on the Movement and Demagnetization of Ferromagnetic Particles in Alternating Magnetic Fields." Physics, vol. 7, June 1936, p. 236.
1567. ———. Magnetic Properties and Orientation of Ferromagnetic Particles. Physics, vol. 6, No. 3, March 1935, pp. 90-99.
1568. ———. Magnetic Properties and Orientation of Ferromagnetic Particles, II: Pyrrhotite. Physics, vol. 6, December 1935, pp. 376-379.

1569. DAVIS, C. W. Mythical White Metal and Other Super-hard Irons (letter to editor), *Metal Prog.*, vol. 43, January 1943, pp. 74-75.
1570. ———. New Magnetic Separator for Concentration of Ores. *Steel*, vol. 95, No. 26, Dec. 24, 1934, pp. 37-38.
1571. ———. Ore Testing. Bureau of Mines Met. Div., Conf. Met. Res., Salt Lake City, Utah, May 1940, pp. 1-11.
1572. ———. Platinum Assay. *Min. Sci. Press*, vol. 120, 1920, pp. 823-824.
1573. ———. Radioactivity and Some Practical Applications. *Min. Sci. Press*, vol. 122, 1921, pp. 229-232.
1574. ———. A Rapid Practical Method of Demagnetization Involving High Frequency (letter to the editor). *Nature*, vol. 135, No. 3419, May 11, 1935, pp. 790-791.
1575. ———. Reduction of Tungstic Oxide. *Ind. Eng. Chem.*, vol. 11, 1919, pp. 201-204.
1576. ———. Simple Changes Which Effect Marked Improvement in Schreiner Calorimeter. *Jour. Franklin Inst.*, vol. 190, 1920, pp. 243-244.
1577. ———. Some Observations on the Movement and Demagnetization of Ferromagnetic Particles in Alternating Magnetic Fields. *Physics*, vol. 6, June 1935, pp. 184-189.
1578. ———. Swelling of Bentonite and Its Control. *Ind. Eng. Chem.*, vol. 19, December 1927, pp. 1350-1352.
1579. ———. Treatment of Low Grade Nickel Ores. *Jour. Inst. Eng. Chem.*, vol. 11, 1919, pp. 644-648.
1580. ———. Disc. of "Mineralogical Characteristics Affecting the Concentration of a Semioxidized Lead-Silver Ore," by R. E. Head. *Trans. AIME, Rocky Mountain Fund vol. on Milling Methods*, vol. 134, 1939, p. 178.
- . See items 1760-1762, 3036, 4049, 4664, 7184, 7455.
1582. DAVIS, C. W., AND HARTENHEIM, MAX. A Simple Method for the Determination of Coercive Force. *Rev. Sci. Instr.*, vol. 7, March 1936, pp. 147-149.
1583. DAVIS, C. W., AND LIND, S. C. New Deposit of Uranium Ore. *Science*, vol. 49, 1919, pp. 441-443.
1584. DAVIS, C. W., AND MESSER, L. R. Some Properties of Fuller's Earth and Acid-treated Earths as Oil-Refining Adsorbents. *Petrol. Dev. and Technol.*, 1928-1929, pp. 288-302.
1585. DAVIS, F. W. Disc. of "Economic Significance of Cyanide Accumulation in the Blast Furnace," by Richard Franchot. *Min. and Met.*, vol. 7, September 1926, p. 400.
1586. DAVIS, F. W., AND BOLE, G. A. Requirements of Refractories for Open Hearth. *Trans. AIME*, vol. 70, 1924, pp. 186-195; *Min. and Met.*, vol. 5, May 1924, pp. 244-245.
- DAVIS, FRANKLIN T. See item 2916.
1587. DAVIS, HUBERT W. Cobalt. *Eng. Min. Jour.*, vol. 160, No. 2, February 1959, p. 149.
1588. ———. Cobalt in 1941. *Eng. Min. Jour.*, vol. 143, February 1942, p. 51.
1589. ———. Cobalt in 1944. *Eng. Min. Jour.*, vol. 146, February 1945, p. 107.
1590. ———. Cobalt in 1945. *Eng. Min. Jour.*, vol. 147, No. 2, February 1946, pp. 86-87.
1591. ———. Cobalt in 1946. *Eng. Min. Jour.*, vol. 148, No. 2, February 1947, p. 81.
1592. ———. Cobalt in 1947. *Eng. Min. Jour.*, vol. 149, No. 2, February 1948, p. 87.
1593. ———. Cobalt in 1948. *Eng. Min. Jour.*, vol. 150, No. 2, February 1949, p. 88.
1594. ———. Cobalt in 1949. *Eng. Min. Jour.*, vol. 151, No. 2, February 1950, p. 93.
1595. ———. Cobalt in 1950. *Eng. Min. Jour.*, vol. 152, February 1951, p. 90.
1596. ———. Cobalt in 1951. *Eng. Min. Jour.*, vol. 153, No. 2, February 1952, pp. 99-100.
1597. ———. Cobalt in 1952. *Eng. Min. Jour.*, vol. 165, No. 2, February 1953, p. 100.
1598. ———. Fluorspar. *Min. Ind.*, vol. 39, 1930, pp. 221-229; vol. 38, 1929, pp. 223-229; vol. 37, 1928, pp. 231-235; vol. 36, 1927, pp. 206-210; vol. 35, 1926, pp. 247-251; vol. 34, pp. 280-284.
1599. ———. Fluorspar in 1950. *Eng. Min. Jour.*, vol. 152, February 1951, pp. 105, 107.
1600. ———. Fluorspar in 1951. *Eng. Min. Jour.*, vol. 153, No. 2, February 1952, pp. 110-111.
1601. ———. Iron Ore in 1937. *Min. Cong. Jour.*, vol. 24, February 1938, pp. 31-32.
1602. ———. Molybdenum in 1947. *Eng. Min. Jour.*, vol. 149, No. 2, February 1948, p. 92.
1603. ———. Molybdenum in 1948. *Eng. Min. Jour.*, vol. 150, No. 2, February 1949, p. 92.
1604. ———. Molybdenum in 1949. *Eng. Min. Jour.*, vol. 151, No. 2, February 1950, p. 99.
1605. ———. Nickel. *Eng. Min. Jour.*, vol. 160, No. 2, February 1950, pp. 149-150.
1606. ———. Nickel in 1945. *Eng. Min. Jour.*, vol. 147, No. 2, February 1946, p. 90.
1607. ———. Nickel in 1946. *Eng. Min. Jour.*, vol. 148, No. 2, February 1947, p. 87.
1608. ———. Nickel in 1947. *Eng. Min. Jour.*, vol. 149, No. 2, February 1948, p. 90.
1609. ———. Nickel in 1948. *Eng. Min. Jour.*, vol. 150, No. 2, February 1949, p. 91.
1610. ———. Nickel in 1949. *Eng. Min. Jour.*, vol. 151, No. 2, February 1950, p. 90.
1611. ———. Nickel in 1950. *Eng. Min. Jour.*, vol. 152, February 1951, p. 97.
1612. ———. Nickel in 1951. *Eng. Min. Jour.*, vol. 153, No. 2, February 1952, pp. 100-101.
1613. ———. Nickel in 1952. *Eng. Min. Jour.*, vol. 165, No. 2, February 1953, p. 101.
1614. ———. Platinum Metals in 1941. *Eng. Min. Jour.*, vol. 143, February 1942, pp. 51-52.
1615. ———. Platinum Metals in 1944. *Eng. Min. Jour.*, vol. 146, February 1945, p. 107.
1616. ———. Platinum Metals in 1945. *Eng. Min. Jour.*, vol. 147, No. 2, February 1946, pp. 85-86.
1617. ———. Platinum Metals in 1946. *Eng. Min. Jour.*, vol. 148, No. 2, February 1947, p. 82.
1618. ———. Platinum Metals in 1947. *Eng. Min. Jour.*, vol. 149, No. 2, February 1948, p. 89.
1619. ———. Platinum Metals in 1948. *Eng. Min. Jour.*, vol. 150, No. 2, February 1949, p. 92.
1620. ———. Platinum Metals in 1949. *Eng. Min. Jour.*, vol. 151, No. 2, February 1950, pp. 95-96.
1621. ———. Platinum Metals in 1950. *Eng. Min. Jour.*, vol. 152, February 1951, pp. 92-93.
1622. ———. Tungsten in 1941. *Eng. Min. Jour.*, vol. 143, February 1942, p. 48.
1623. ———. Tungsten in 1944. *Eng. Min. Jour.*, vol. 146, February 1945, p. 110.
1624. ———. Tungsten in 1945. *Eng. Min. Jour.*, vol. 147, No. 2, February 1946, p. 90.
1625. ———. Tungsten in 1946. *Eng. Min. Jour.*, vol. 148, No. 2, February 1947, p. 88.

1626. DAVIS, HUBERT W. Tungsten in 1947. *Eng. Min. Jour.*, vol. 149, No. 2, February 1948, p. 91.
1627. ———. Tungsten in 1948. *Eng. Min. Jour.*, vol. 150, No. 2, February 1949, p. 92.
1628. ———. Tungsten in 1949. *Eng. Min. Jour.*, vol. 151, No. 2, February 1950, p. 98.
1629. ———. Vanadium in 1947. *Eng. Min. Jour.*, vol. 149, No. 2, February 1948, p. 90.
———. *See items 1000, 1001, 3471, 4885, 6302.*
1630. DAVIS, H. W., DORB, M. E., JOHNSON, ALBIN C., AND NOLAN, T. B. Statements on Mineral Resources. Tungsten. Chap. in *Mineral Position of the United States. Mineral Resources Economic Subcommittee, Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess., 1947, pp. 300-303.*
1631. DAVIS, H. W., JOHNSON, ALBIN C., AND WILLIAMS, JAMES STEELE. Statements on Mineral Resources. Fluorspar. Chap. in *Mineral Position of the United States. Mineral Resources Economic Subcommittee, Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess., 1947, pp. 242-245.*
1632. DAVIS, H. W., MERTIE, J. B., JR., AND MOSIER, MCHENRY. Statements on Mineral Resources. Platinum Metals. Chap. in *Mineral Position of the United States. Mineral Resources Economic Subcommittee, Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess., 1947, pp. 284-286.*
1633. DAVIS, J. A. Alaska—A National Opportunity. *Proc. Am. Min. Cong.*, vol. 22, 1919, pp. 474-486.
1634. ———. Finding Mineral Content of Samples of Ore. *U.S. Daily*, Aug. 19-26, 1933, p. 6.
1635. ———. Information on Efficient Mining Given in Federal Publications. *U.S. Daily*, Nov. 26, 1929, p. 8.
1636. ———. Power From Lignite to Develop Interior Alaska. *Proc. Am. Min. Cong.*, vol. 23, 1920, pp. 269-278.
———. *See items 975, 6502.*
1637. DAVIS, J. A., AND GROSS, J. Recovery of Gold From Black Sand. *Min. and Sci. Press*, vol. 122, 1921, p. 504; *discs.*, pp. 668-669, 669-670.
1638. DAVIS, J. D. Bibliography of Low Temperature For 1927 to Date. *Am. Gas Assoc.*, 1928, pp. 1190-1197.
1639. ———. Blending Properties of Certain High-Volatile Coals as Brought Out by High-Temperature Carbonization. *Proc. Am. Gas Assoc.*, 1936, pp. 809-814.
1640. ———. Calorimetric Apparatus for Measurement of Reaction Heats at High Temperatures, Particularly for the Heat of Carbonization of Coal. *Ind. Eng. Chem.*, vol. 16, July 1924, pp. 726-730.
1641. ———. Carbonization of Blended Coals. *Am. Gas Jour.*, vol. 134, June 1931, p. 80.
1642. ———. *Coke Marks' Mech. Eng. Handbook*, McGraw-Hill Book Co., New York, N.Y., 4th ed., 1941, pp. 799-800.
1643. ———. Coke and By-Product Yields From Various Coals. *Iron and Steel Eng.*, vol. 17, February 1940, pp. 47-63.
1644. ———. Coke Industry—Expanding to Keep Up With Increased Demand but Handicapped by Poorer Quality Coals. *The Coal Industry in 1948. Min. Eng.*, vol. 1, No. 3, sec. 2, March 1949, pp. 120-122; *Jour. Metals*, vol. 1, No. 3, sec. 2, March 1949, pp. 120-122.
1645. ———. Dependence of Yields of Products on Temperature and Rate of Heating. Chap. 22, *Chemistry of Coal Utilization* (H. H. Lowry, ed.), John Wiley & Sons, New York, 1945, vol. 1, pp. 834-847.
1646. ———. Desirable Characteristics of Coke: *Chemical. Proc. Am. Gas Assoc.*, 1928, pp. 1048-1054; *Gas Age-Record*, vol. 62, Aug. 18, 1928, pp. 103-105; *Iron and Coal Trades Rev.*, vol. 117, Aug. 24, 1928, pp. 262-263.
1647. ———. Ethylene as a Source of Alcohol. *Chem. Met. Eng.*, vol. 28, No. 3, 1923, pp. 116-117.
1648. ———. Ethylene From Trent Amalgams as a Source of Alcohol. *Chem. Met. Eng.*, vol. 27, 1922, pp. 1087-1088.
1649. ———. Fusanin. *Min. Cong. Jour.*, vol. 14, March 1929, pp. 197-200; *Fuel in Sci. and Prac.*, vol. 8, August 1929, pp. 375-379.
1650. ———. High-Chromium Cast Steel Flue. *Chem. Met. Eng.*, vol. 30, September 1929, p. 534.
1651. ———. Method for Determining Gas-, Coke-, and By-Product-Making Properties of Coal. *Proc. Am. Gas Assoc.*, 1928, pp. 1164-1180.
1652. ———. The Plastometer. *Ind. Eng. Chem.*, anal. ed., vol. 3, No. 1, 1931, pp. 43-45.
1653. ———. Present Status of Coal Carbonization at Low Temperatures. *Am. Gas Assoc. Tech. Sec.*, vol. 3, 1921, pp. 441-459.
1654. ———. Products Yielded by Carbonization of Coal at Low Temperatures. *Fuels and Furnaces*, vol. 1, No. 4, 1923, pp. 247-249; No. 5, pp. 336-338.
1655. ———. Progress in Low-Temperature Carbonization, During 1926. Report of Prime Movers Committee, *Nat. Elec. Light Assoc.*, July 1928, pp. 10-14.
1656. ———. Recent Scientific Research in Low-Temperature Carbonization With Particular Reference to the Mechanism of Coking. *Proc. Am. Gas Assoc.*, 1927, pp. 1273-1279.
1657. ———. Report of Subcommittee on Survey of Gas-, Coke-, and Byproduct-Making Properties of American Coals. *Proc. Am. Gas Assoc.*, 1940, pp. 426-441.
1658. ———. Shipping American Coals to Switzerland With Sampling Methods in Use. *Coal Age*, vol. 18, 1920, pp. 334-338.
1659. ———. Some Observations on the Mixing of Coals for Carbonization. *Proc. Am. Gas Assoc.*, 1923, pp. 991-997; *Gas Age-Record*, vol. 52, 1923, pp. 373-375.
1660. ———. Survey of Carbonizing Properties of American Coals; Bureau of Mines Coal-Carbonization Laboratory, 1946-47. *Proc. Am. Gas Assoc.*, 1947, pp. 87-98.
1661. ———. Survey of Carbonizing Properties of American Coals; Bureau of Mines Coal-Carbonizing Laboratory, 1949-50. *Proc. Am. Gas Assoc.*, 1950, pp. 402-409.
1662. ———. Survey of Gas-, Coke-, and Byproduct-Making Properties of American Coals; Summary of Bureau of Mines Investigations for Fiscal Year Ended June 30, 1943. *Proc. Am. Gas Assoc.*, 1943, pp. 234-241.
1663. ———. Sec. 7. Fuels and Furnaces. *Coke Marks' Mech. Eng. Handbook*, McGraw-Hill Co., New York, N.Y., 1951, pp. 708-760.
———. *See items 312, 863, 902, 1065, 2071, 2392-2402, 2460-2462, 2477, 3746, 3747, 5538, 6312, 6416-6418, 6901-6903, 7325, 7621, 8203, 8509.*
1664. DAVIS, J. D., AND AUVIL, H. STUART. Electrical Conductivity of Coke. *Ind. Eng. Chem.*, vol. 27, October 1935, pp. 1196-1200.
1665. ———. High-Temperature Carbonization of Coal. Effect of Free Space Above the Charge on Yields and Properties of Gases and Tars. *Ind. Eng. Chem.*, vol. 27, April 1935, pp. 459-461.

1666. DAVIS, J. D., and AURIEL H. STUART. Shrinkage of Low-Temperature Coke on Reheating to a Higher Temperature. *Am. Gas Jour.*, vol. 144, June 1936, p. 11.
1667. DAVIS, J. D., and BYRNE, J. F. Adiabatic Method for Studying Spontaneous Heating of Coal. *Jour. Am. Ceram. Soc.*, vol. 7, November 1924, pp. 809-816.
1668. ———. Influence of Moisture on the Spontaneous Heating of Coal. *Ind. Eng. Chem.*, vol. 13, March 1920, pp. 233-236.
1669. ———. Spontaneous Combustion of Coal. Characteristics Shown by an Adiabatic Calorimeter. *Ind. Eng. Chem.*, vol. 17, February 1925, pp. 125-130.
1670. DAVIS, J. D., and COLEMAN, C. E. Low Temperature Distillation of Amalgams of Noncoking Coal and Asphaltic Oils. *Chem. Met. Eng.*, vol. 26, 1922, pp. 173-174.
1671. DAVIS, J. D., and COOPER, H. M. Repair of Leaky Calorimetric Resistance Thermometers. *Ind. Eng. Chem.*, vol. 16, June 1924, p. 579.
1672. DAVIS, J. D., and FIELDNER, A. C. Relation of Carbonizing Temperature and Rank of Coal to the Reactivity, Electrical Conductivity, and Hygroscopicity of Coke. *Proc. Am. Gas Assoc.*, 1935, pp. 636-657; disc., pp. 657-659.
1673. ———. Survey of Gas and Coke-Making Properties of American Coals. *Proc. Am. Gas Assoc.*, Tech. Sec., 1930, pp. 990-1033.
1674. DAVIS, J. D., and GALLOWAY, A. E. Composition of Some Low-Temperature Tars Now Being Produced on a Semi-Commercial Scale. *Am. Gas Assoc.*, 1925, pp. 887-890.
1675. ———. The Low-Temperature Carbonization of Lignite and Sub-Bituminous Coals: Yield of Products and Comparison of Assay Methods. *Ind. Eng. Chem.*, vol. 20, June 1928, pp. 612-617.
1676. DAVIS, J. D., and GREENE, J. W. Reactivity of Pulverized Cokes in Air, Carbon Dioxide and Water Vapor. *Am. Gas Assoc.*, 1926, pp. 1160-1164.
1677. DAVIS, J. D., and HANSON, O. G. Effect of Inerts on Coking Properties of Pittsburgh Bed Coal. Determination by Small-Scale Carbonization Test. *Ind. Eng. Chem.*, anal. ed., vol. 4, July 15, 1932, pp. 328-332.
1678. DAVIS, J. D., and HOLMES, C. R. Blending of Certain High-Volatile Coals With Beckley-Bed Coal and the Effect on the Yield and Quality of the Carbonization Products. *Proc. Am. Gas Assoc.*, 1937, pp. 670-681; *Am. Gas Jour.*, vol. 146, June 1937, p. 46.
1679. DAVIS, J. D., and IREY, K. M. Study of the Wax From Low Temperature Tar. *Ind. Eng. Chem.*, vol. 23, February 1931, pp. 186-189.
1680. DAVIS, J. D., and KARRICK, L. C. Domestic Coke and Factors Affecting Coke Formation. *Proc. Am. Gas Assoc.*, 1925, pp. 900-907.
1681. DAVIS, J. D., and PLACE, P. B. Thermal Reactions of Coal During Carbonization. *Ind. Eng. Chem.*, vol. 16, June 1924, pp. 589-592.
1682. DAVIS, J. D., and POHLE, W. D. Effect of Addition of Fine Inerts on the Agglutinating Power of Pittsburgh Coal. *Ind. Eng. Chem.*, vol. 23, December 1931, pp. 1427-1431.
1684. DAVIS, J. D., and REYNOLDS, D. A. Benzene-Pressure Extraction of Coal. *Ind. Eng. Chem.*, vol. 21, December 1929, pp. 1295-1298.
1685. ———. Carbonizing Properties of Henryetta-Bed Coal From Atlas No. 2 Mine, Okmulgee, Okmulgee County, Okla. *Oklahoma Geol. Survey Min. Rept.* 12, prelim. rept. 1941, 6 pp.
1686. ———. Carbonizing Properties of McAlester-Bed Coal From Dow No. 10 Mine, Dow, Pittsburg County, Okla. *Oklahoma Geol. Survey Min. Rept.* 15, prelim. rept., 1942, 11 pp.
1687. ———. The Coking Constituents of Mesa Verde and Pittsburgh Coals. *Ind. Eng. Chem.*, vol. 18, August 1926, pp. 838-841.
1688. ———. Effect of Physical Characteristics of Coke on Reactivity. *Ind. Eng. Chem.*, vol. 20, June 1928, pp. 617-621.
1689. ———. Influence of Resins in a Utah Coal on Its Coking Properties. *Fuel*, vol. 23, 1944, pp. 37-40.
1690. ———. The Oxidation of the Constituents of a Resinous Utah Coal. *Fuel*, vol. 5, 1926, pp. 405-411.
1691. ———. Survey of Carbonizing Properties of American Coals: Bureau of Mines Coal-Carbonization Laboratory. *Proc. Am. Gas Assoc.*, 1946, pp. 426-441.
1692. ———. Survey of Carbonizing Properties of American Coals: Bureau of Mines Carbonizing Laboratory. 1948-49. *Proc. Am. Gas Assoc.*, 1949, pp. 413-424.
1693. ———. Survey of Gas and Coking Properties of American Coals: Part II—Development of Apparatus. *Proc. Am. Gas Assoc.*, 1929, pp. 994-1005.
1695. DAVIS, J. D., and YOUNKINS, J. A., JR. Electrostatic Method for Determining Fusain in Bituminous Coal. *Ind. Eng. Chem.*, anal. ed., vol. 1, July 15, 1929, pp. 165-167; *Fuel*, vol. 8, September 1929, pp. 438-440.
1696. DAVIS, J. D., PLACE, P. B., and EDEBURN, P. W. Heat of Carbonization of Coal. *Fuel*, July 1925, pp. 280-299.
1697. DAVIS, J. D., PLACE, P. B., and SCOTT, G. S. Destructive Distillation of Mixtures of Oil and Coal. *Chem. Met. Eng.*, vol. 26, No. 25, 1921, pp. 1131-1130.
1698. DAVIS, J. W. *Helium Eng. Min. Jour.*, vol. 109, 1920, pp. 84-85.
- . See item 1882.
- DAVIS, L. P. See items 4835, 4836.
- DAVIS, R. F. See items 2085-2087, 2092.
1699. DAVIS, R. F., and ELLIOTT, M. A. The Removal of Aldehydes From Diesel Exhaust Gas. *Trans. ASME*, vol. 70, 1948, pp. 745-750.
- DAVIS, T. C. See item 3913.
- DAWSON, J. P. See items 1921, 3013, 5014.
- DEAL, CARL H., JR. See items 4302, 4303.
1700. DEAN, B. W. Convenient Electric Heater for Analytical Distillation of Gasoline. *Ind. Eng. Chem.*, vol. 10, 1918, p. 823.
1701. ———. Fuels for Automotive Apparatus. *Jour. Soc. Auto. Eng.*, vol. 2, 1918, p. 47.
1702. ———. Internal-Combustion Engine Fuels. *Jour. Soc. Auto. Eng.*, vol. 6, 1920, pp. 107-117.
1703. ———. Motor Fuels. *Jour. Franklin Inst.*, vol. 189, 1920, pp. 269-302.
1704. ———. Oil Resources Limited. Shale Oil and Alcohol Possible Gasoline Substitute. *Chem. Eng.*, vol. 27, 1919, p. 313.
1705. ———. Present Status of Refinery Practice. *Oil Gas Jour.*, vol. 17, No. 38, 1919, pp. 52-53.
1706. ———. Problems in Development of Specifications for Motor Gasoline. *Proc. ASTM*, vol. 21, 1921, p. 1094.
1707. ———. Report of Subcommittee XII on Flash. *Proc. AIME*, vol. 21, p. 368.
1708. ———. Status of Refinery Practice With Regard to Gasoline Production. *Jour. Soc. Auto. Eng.*, vol. 4, 1919, p. 372.
- . See items 4000, 4268, 6572, 6579, 6580, 7417.

1709. DEAN, E. W., AND COOKE, M. B. Effect of Paraffin Wax on Viscosity of Petroleum Oils. *Ind. Eng. Chem.*, vol. 14, 1922, p. 410.
1711. DEAN, E. W., AND KREISINGER, H. Emergency Fleet Corporation Water-Tube Boilers for Wooden Ships. Part I, Description of Boilers and Results of Evaporative Tests. *Trans. ASME*, vol. 41, 1919, pp. 623-636.
1712. DEAN, E. W., AND LANE, F. W. Viscosity-Temperature Curves of Fractions of Typical American Crude Oils. *Ind. Eng. Chem.*, vol. 13, 1921, pp. 779-786.
1713. DEAN, E. W., AND NETZEN, C. Investigation of Airplane Fuels. *Jour. Soc. Auto. Eng.*, vol. 5, 1919, pp. 126-130.
1715. DEAN, E. W., AND SMOOTZ, J. P. Adapting the Fuel to the Engine. *Jour. Soc. Auto. Eng.*, vol. 4, No. 6, June 1919, p. 495.
1716. DEAN, E. W., AND STARK, D. D. Convenient Method for Determination of Water in Petroleum and Other Organic Emulsions. *Ind. Eng. Chem.*, vol. 12, 1920, pp. 486-490.
1717. DEAN, E. W., HILL, H. H., AND SMITH, N. A. C. Quality of Mid-Continent Crude Oil. *Oil Gas Jour.*, vol. 20, No. 42, 1922, pp. 82-83; *Nat. Petrol. News*, vol. 14, Mar. 22, 1922, pp. 33-37.
1719. DEAN, R. S. Bureau of Mines Metallurgical Laboratories. *Ind. Eng. Chem.*, vol. 12, 1940, pp. 708-710.
1720. ———. Bureau of Mines Seeking to Make United States Independent of Foreign Alumina Ores. *Pit and Quarry*, vol. 35, May 1943, pp. 63-64.
1721. ———. Carbon Determination. *Steel*, vol. 106, Mar. 11, 1940, pp. 44, 46, 48.
1722. ———. Colloidal Behavior in Metals and Alloys. *Colloid Chem.*, vol. 6, 1940, pp. 561-578.
1723. ———. Current Activities of the Metallurgical Division of the U.S. Bureau of Mines. *Min. Cong. Jour.*, vol. 22, April 1936, pp. 20, 37.
1724. ———. Development of New Flotation Reagents. Bureau of Mines Met. Div., *Conf. Met. Res.*, Salt Lake City, Utah, May 1940, pp. 84-89.
- 1724a. ———. Electrolytic Manganese and Its Metallurgical Uses. *Min. and Met.*, vol. 22, 1941, pp. 5-8; *Metals Industry (London)*, vol. 58, 1941, pp. 140-148.
1725. ———. Electrolytic Manganese Alloys Get Good Commercial Start. *Steel*, vol. 107, Oct. 14, 1940, p. 165.
1726. ———. Electrolytic Manganese and Its Alloys. *Metal Prog.*, vol. 30, 1939, pp. 357-358; *Metallurgia*, vol. 25, February 1942, pp. 104-106.
1727. ———. Electrolytic Manganese Opening Door to New and Unusual Alloys. *Steel*, vol. 106, Mar. 18, 1940, p. 72.
1728. ———. Iron and Steel Metallurgy in 1937. *Min. Cong. Jour.*, vol. 24, February 1938, pp. 44-45.
1729. ———. Manganese as a Nonferrous Metal. *Colorado Min. Assoc.*, 1940, 8 pp.
1730. ———. Manganese Metallurgy Advances. *Eng. Min. Jour.*, December 1939, p. 42.
1731. ———. Magnetite as a Standard Material for Measuring Grinding Efficiency. *AIME Tech. Pub. 660*, 1936, 5 pp.; *Trans. AIME, Rocky Mountain Fund*, vol. on Milling Methods, vol. 134, 1939, pp. 324-326.
1732. ———. The Metallurgical Work of the U.S. Bureau of Mines. *Metals and Alloys*, vol. 4, September 1933, pp. 137-139.
1733. ———. Milling and Smelting of Lead and Zinc. *Min. Cong. Jour.*, vol. 16, November 1930, pp. 799-808.
1734. ———. New Alloys of Manganese and Copper. *Science*, vol. 91, suppl. 12, Apr. 5, 1940.
1735. ———. New Use Patterns Required for Survival of Wartime Metallurgical Innovations. *Min. and Met.*, vol. 26, 1945, pp. 280-291.
1736. ———. Present Status of Direct Production of Iron and Steel From Ores. *Min. and Met.*, vol. 16, April 1935, pp. 185-186.
1737. ———. The Present Status of Electrolytic Manganese and Its Alloys. *AIME Tech. Pub. 1721, Metals Technol.*, June 1944, 17 pp.; *Trans. AIME, Inst. Metals Div.*, vol. 150, 1944, pp. 301-317; *disc.*, pp. 317, 318, 319, 320, 321.
1738. ———. Process Tests Applied to Nonferrous Ores. *U.S. Daily*, May 2, 1932, p. 8.
1739. ———. Production of Alumina From Low-Grade Domestic Materials; Work in Bureau of Mines Pilot Plants. *Min. and Met.*, vol. 24, 1943, pp. 350-359.
1740. ———. Production of Electrolytic Manganese. *Min. Jour. (Arizona)*, vol. 21, Apr. 30, 1938, pp. 3-4.
1741. ———. Program of Metallurgical Investigations of the U.S. Bureau of Mines. *Missouri Sch. Mines Alumni*, vol. 4, June 15, 1930, pp. 7-8.
1742. ———. Progress in Theoretical Metallurgy During 1929. *Min. and Met.*, vol. 11, January 1930, p. 4; *Trans. AIME, Metal Min. Non-Ferrous Met.*, 1930, p. 370.
1743. ———. Recent Advances in Crushing and Grinding. *Bull. Am. Ceram. Soc.*, vol. 16, January 1937, pp. 8-11.
1744. ———. Recent Progress in Treatment of Low-Grade Manganese Ores by Experiment Stations, U.S. Bureau of Mines. *Proc. Am. Mangan. Prod. Assoc.*, 1930, pp. 105-110.
1745. ———. Recent Trends in Ore Dressing. *Min. Cong. Jour.*, vol. 24, April 1938, pp. 37-39.
1746. ———. The Reduction of Zinc Ores by Methane. *Eng. Min. Jour.*, vol. 131, May 11, 1931, pp. 420-421; *Jour. Am. Zinc Inst.*, vol. 14, Ann. Meet. No., pp. 77-80; *Eng. and Min. World*, June 1931, pp. 353-354; *Min. Cong. Jour.*, vol. 17, May 1931, p. 277.
1747. ———. The Relation of the U.S. Bureau of Mines to the Iron and Steel Industry. *U.S. Daily*, Dec. 14, 1931, p. 8.
1748. ———. Sulphur Fixation. *Engineer*, vol. 163, June 11, 1937, pp. 654-686.
1749. ———. Disc. of "A Chemical Engineer Views the Steel Industry," by Charles F. Ramseyer. *Trans. AIME, Iron and Steel Div.*, vol. 116, 1935, pp. 176-177.
1750. ———. Disc. of "Inclusions and Their Effect on Impact Strength of Steel," by A. B. Kinzel and Walter Crafts. *Trans. AIME, Iron and Steel Div.*, 1931, p. 173.
1751. ———. Disc. of "The Influence of Grain Size on Magnetic Properties," by W. E. Ruder. *Trans. Am. Soc. Metals*, vol. 22, December 1934, p. 1140.
1752. ———. Disc. of "The Open Hearth Steel Process as a Problem in Chemical Kinetics," by E. R. Jette. *Trans. AIME, Iron and Steel Div.*, 1931, p. 113.
1753. ———. Disc. of "Principles of Flotation. V. Conception of Adsorption Applied to Flotation Reagents," by Ian William Wark and Alwyn B. Cox. *Trans. AIME, Rocky Mountain Fund vol. on Milling Methods*, vol. 134, 1939, p. 39.
1754. ———. Disc. of "Some Notes on Blue Brittleness," by Leland Russel van Wert. *Trans. AIME, Iron and Steel Div.*, 1931, p. 244.
1755. ———. Disc. of "Statistical Interpretation of Laboratory Coal Tests," by G. B. Gould. *Trans. AIME, Coal Div.*, vol. 130, 1938, pp. 220-222.

1756. DEAN, R. S. Disc. of Technical Publication 469, "Some Effects of Temperature and Iron Oxide in the Manufacture of Basic Open Hearth Steel," by W. J. Reagan. *Trans. AIME*, vol. 100, p. 149.
1757. ———. Disc. of "Theory of Metallic Crystal Aggregates," by C. G. Maier. *Trans. AIME, Inst. Metals Div.*, vol. 122, 1936, p. 170.
———. See Items 3037, 4062.
- 1757a. DEAN, R. S., AND ANDERSON, C. TRAVIS. Alloys of Manganese and Copper. Electrical Resistance. *Trans. Am. Soc. Metals*, vol. 29, 1941, pp. 899-906.
1758. DEAN, R. S., AND ANDERSON, C. T. Alloys of Manganese and Copper. Hardening by Cold Work and Heat Treatment. *Trans. Am. Soc. Metals*, vol. 29, 1941, pp. 802-807.
- 1758a. ———. The Alloys of Manganese, Copper and Nickel. The Electrical Resistance and Temperature Coefficient of Electrical Resistance. *Trans. Am. Soc. Metals*, vol. 29, 1941, pp. 899-906.
- 1758b. ———. Alloys of Manganese, Nickel, and Copper. Hardening in the Pseudobinary System, Copper-Manganese-Nickel. *Trans. Am. Soc. Metals*, vol. 29, 1941, pp. 808-812.
1759. DEAN, R. S., AND CLAYTON, CHARLES Y. The Mechanism of Steel Hardening and Tempering as Indicated by Coercive Force Measurements. *Am. Soc. Metals Prepr.* 1, October 1937, 16 pp.; *Trans. Am. Soc. Metals*, vol. 26, 1938, pp. 237-252; disc., pp. 252-254; *Jour. Iron and Steel Inst.*, vol. 137, No. 1, 1938, p. 72A.
1760. DEAN, R. S., AND DAVIS, C. W. Magnetic Concentration of Ores. *Trans. AIME, Milling Methods*, vol. 112, 1934, pp. 509-537.
1761. ———. Physical Properties of Magnetite and its Possible Uses as an Industrial Mineral. *Min. Technol.*, vol. 1, March 1937, 18 pp.; *AIME Tech. Pub.* 795, 1937, 18 pp.
1762. ———. Disc. of "Separation of Hematite by Hysteretic Repulsion," by E. W. Schilling and Harwick Johnson. *Metals Technol.*, vol. 2, December 1935, pp. 11-13; *Trans. AIME, Iron and Steel Div.*, vol. 120, 1936, pp. 67-68.
1763. DEAN, R. S., AND GOTSCHALK, V. H. The Uncommon Metals. *Eng. Min. Jour.*, vol. 141, January 1940, pp. 92-93.
1764. DEAN, R. S., AND GROSS, J. New Ideas in the Preparation of Ore for Milling. *Canadian Chem. and Met.*, vol. 16, March 1932, pp. 71-73.
1765. DEAN, R. S., AND HERSBERGER, A. B. New Flotation Reagents. *AIME Tech. Pub.* 695, 1935, 8 pp.; *Trans. AIME, Rocky Mountain Fund vol. on Milling Methods*, vol. 134, 1939, pp. 81-88.
1766. DEAN, R. S., AND KOSTER, J. Disc. of "An X-Ray Study of the Nature of Solid Solutions," by Robert T. Phelps and Wheeler P. Davey. *Trans. AIME*, vol. 69, 1932, pp. 249-258.
1767. DEAN, R. S., AND WILLIAMS, CLYDE. Is Direct Iron (Sponge Iron) a Substitute for Melting Stock? *Metal Prog.*, vol. 42, 1942, pp. 1040-1047.
1768. DEAN, R. S., ANDERSON, C. T., AND JACOBS, J. H. The Alloys of Manganese and Copper. Microstructure of the Alloys. *Trans. Am. Soc. Metals*, vol. 29, 1941, pp. 881-898.
1769. DEAN, R. S., ANDERSON, C. T., AND POTTER, E. V. Alloys of Manganese and Copper. Vibration-Damping Capacity. *Am. Soc. Metals Prepr.* 40, 1940, 14 pp.; *Trans. Am. Soc. Metals*, vol. 29, 1941, pp. 402-414.
1770. ———. The Alloys of Manganese-Nickel and Copper. The Coefficient of Thermal Expansion. *Trans. Am. Soc. Metals*, vol. 29, 1941, pp. 907-912.
1771. ———. Manganese Alloys. Bureau of Mines Metallurgical Div., Conf. on Metallurgical Research, Salt Lake City, Utah, May 1940, pp. 38-44.
1772. DEAN, R. S., BARRETT, E. R., AND PIERSON, CALVIN. Some Observations on Sponge Iron and the Properties of the Direct Steel Made From It. *Trans. AIME, Metals Technol.*, vol. 2, No. 1, 1935, pp. 1-9.
1773. DEAN, R. S., GROSS, JOHN, AND WOOD, CARL E. Preparing Ore by Explosive Shattering. *Eng. Min. Jour.*, vol. 136, June 1935, pp. 281-283.
1774. DEAN, R. S., LONG, J. R., AND GRAHAM, T. R. Copper-Manganese-Aluminum Alloys. Properties of Wrought Alpha Solid-Solution Alloys. *AIME Tech. Pub.* 2142, *Metals Technol.*, vol. 14, No. 2, 1947, 16 pp.; *Trans. AIME, Inst. Metals Div.*, vol. 171, 1947, pp. 39-104.
1775. ———. Copper-Manganese-Nickel Alloys—Age Hardening of Alloys Containing Equal Amounts of Mn and Ni. *Trans. Am. Soc. Metals*, 1945, vol. 34, pp. 481-502; disc., pp. 502-504.
- 1775a. ———. Copper-Manganese-Zinc Alloys—Physical Properties of Wrought Copper-Rich Alloys. *AIME Tech. Pub.* 2183, *Metals Technol.*, 14 pp.; *Trans. AIME*, vol. 171, *Inst. Metals Div.*, 1947, pp. 105-118.
1776. DEAN, R. S., LONG, J. R., GRAHAM, T. R., AND FEUSTEL, R. G. Copper-Manganese-Zinc Alloys. *Metal Ind.*, vol. 68, May 24, 1946, pp. 403-406.
1777. ———. Iron-Manganese Alloys—the Properties of Cold-Worked and Heat-Treated Alloys Containing 1-7 Percent Manganese. *Trans. Am. Soc. Metals, Prepr.* 5, 1945, 20 pp.
1778. ———. Physical Properties of Copper-Manganese-Zinc Alloys Containing 60 Percent Copper and 5 to 25 Percent Manganese. *AIME Tech. Pub.* 1956, *Metals Technol.*, January 1946, 12 pp.; *Trans. AIME, Inst. Metals Div.*, vol. 166, 1946, pp. 185-196.
1779. ———. The Properties of Cold-Worked and Heat-Treated Alloys Containing 1 to 7 Percent Manganese. *Trans. Am. Soc. Metals, Prepr.* 5, 1945, pp. 1-20.
1780. DEAN, R. S., LONG, J. R., GRAHAM, T. R., AND MATTHEWS, C. W. Age-Hardening Copper-Manganese-Nickel Alloys. *Am. Soc. Metals, Prepr.* 11, 1944, 22 pp.; *Trans. Am. Soc. Metals*, vol. 34, 1945, pp. 481-504; *Metallurgia*, vol. 31, April 1945, p. 323.
1781. ———. A White, High-Manganese Brass. *AIME Tech. Pub.* 1813, *Metals Technol.*, vol. 12, June 1945, 9 pp.
1782. DEAN, R. S., LONG, J. R., GRAHAM, T. R., AND ROBERSON, A. H. The Alpha Solid-Solution Field of the Copper-Manganese-Zinc System. *AIME Tech. Pub.* 1836, *Metals Technol.*, vol. 12, June 1945, 12 pp.
1783. DEAN, R. S., LONG, J. R., GRAHAM, T. R., AND SUGDEN, D. P. Properties of Cold-Worked and Annealed Copper-Manganese Alloys Containing 2 to 20 Percent Manganese. *Trans. Am. Soc. Metals*, vol. 38, 1947, pp. 577-591; disc., pp. 591-602.
1784. DEAN, R. S., LONG, J. R., GRAHAM, T. R., POTTER, E. V., AND HAYES, E. T. The Copper-Manganese Equilibrium System. *Am. Soc. Metals, Prepr.* 9, 1944, 20 pp.; *Trans. Am. Soc. Metals*, vol. 34, 1945, pp. 443-464.
1785. DEAN, R. S., LONG, J. R., GRAHAM, T. R., ROBERSON, A. H., AND ARMANTROUT, C. E. The Alpha Solid Solution Area of the Copper-Manganese-Aluminum System. *AIME Tech. Pub.* 2069, *Metals Technol.*, vol. 13, No. 7, October 1946, 10 pp.; *Trans. AIME, Inst. Metals Div.*, vol. 171, 1947, pp. 70-88.

1786. DEAN, R. S., LONG, J. K., HAYES, E. T., AND ROOT, D. C. Spot Welding of Titanium. Symposium on Titanium Sponsored by Office of Naval Research. Metal Prog., vol. 55, No. 2, February 1949, pp. 200, 252, 254; Trans. AIME, vol. 171, 1947, pp. 431-438; AIME Tech. Pub. 2102, Metals Technol., vol. 13, No. 7, October 1946, pp. 1-8.
1787. DEAN, R. S., LONG, J. R., WARTMAN, F. S., AND ANDERSON, E. L. Preparation and Properties of Ductile Titanium. AIME Tech. Pub. 1901, Metals Technol., vol. 13, No. 2, February 1946, 13 pp.; Trans. AIME, Inst. Metals Div., vol. 160, 1946, pp. 369-381.
1788. DEAN, R. S., LONG, J. R., WARTMAN, F. S., AND HAYES, E. T. Ductile Titanium—Its Fabrication and Physical Properties. AIME Tech. Pub. 1905, Metals Technol., vol. 13, No. 2, February 1946, 17 pp.; Trans. AIME, Inst. Metals Div., vol. 160, 1946, pp. 382-398.
1789. DEAN, R. S., POTTER, E. V., AND HUBER, R. W. The Electrical Resistivity and Temperature Coefficient of Resistance of Copper-Manganese Alloys. Trans. Am. Soc. Metals, vol. 40, 1948, pp. 381-400.
1790. DEAN, R. S., POTTER, E. V., AND LONG, J. R. Properties of Transitional Structures in Copper-Manganese Alloys. Am. Soc. Metals, Prepr. 10, 1944, 16 pp.; Trans. Am. Soc. Metals, vol. 34, 1945, pp. 465-480.
1791. DEAN, R. S., POTTER, E. V., HUBER, R. W., AND LUKENS, H. C. Damping Capacity of Copper-Manganese Alloys. Trans. Am. Soc. Metals, vol. 40, 1948, pp. 355-380.
1792. DEARDORFF, D. K., AND HAYES, E. T. Melting Point Determination of Hafnium, Zirconium, and Titanium. AIME Tech. Paper 4169E; Trans. AIME, Jour. Metals, vol. 8, No. 5, May 1956, pp. 509-511.
1793. DEARDORFF, D. K., AND KATO, H. The Transformation Temperature of Hafnium. Trans. AIME, Met. Soc., vol. 215, October 1959, p. 875.
1794. DEATON, W. M. Continuous Measurement of Water Vapor in Natural Gas Achieved With New Recorder. Gas, vol. 29, No. 6, June 1953, pp. 100, 102, 104; Petrol. Eng., vol. 25, No. 10, September 1953, pp. D27, D30, D32-D34.
1795. ———. Determination and Recordings of Dew Points in Natural-Gas Systems. Proc. Texas Coll. Arts and Ind., 5th Ann. Short Course in Gas Technology, November 1950.
1796. ———. Determination of Water Vapor in Natural Gas. University of Oklahoma Bull. 1949, Southwestern Gas Measurement Short Course Issue, July 15, 1949, pp. 208-215.
1797. ———. Gas Hydrates and Their Relation to Pipeline Operation. Gas, vol. 12, June 1936, pp. 20, 58-59; Proc. Southwestern Gas Measurement Short Course, 1936, pp. 38-42.
1798. ———. Helium, Another Natural Gas. Mines Mag., vol. 49, No. 11, November 1959, pp. 46-49, 54.
1799. ———. Measurement of Water Vapor in Natural Gas. Petrol. Eng., vol. 25, September 1953, pp. D27-D34.
———. See items 644, 2771.
1800. DEATON, W. M., AND BARKER, P. M. Dewpoint Recorder for Natural Gases. Am. Gas Assoc. Proj. NG197, April 1956, 20 pp.
1801. DEATON, W. M., AND FROST, E. M., JR. Bureau of Mines Apparatus for Determining the Dew Point of Gases Under Pressure. Am. Gas Jour., July 1938, p. 19.
1802. ———. Field Practices in Dealing With Gas Hydrates in Natural-Gas Pipe Lines. Am. Gas Assoc. Monthly, September 1939, pp. 301-303, 326-327.
1803. ———. Gas Hydrates. Proc. Am. Gas Assoc., Nat. Gas Sec., 1938, pp. 112-119; Gas Age, vol. 81, May 26, 1938, pp. 33, 34, 48; Gas, vol. 16, June 1938, pp. 31-32.
1804. ———. Gas Hydrates in Natural Gas Pipe Lines. Proc. Am. Gas Assoc., Nat. Gas Dept., 1937, pp. 23-31; Oil Gas Jour., May 20, 1937, pp. 75-81; Am. Gas Jour., June 1937, pp. 17-21, 32; Gas Age-Record, July 8, 1937, pp. 37-40, 44; Pipe Line News, July 1937, pp. 6-9; Am. Gas Assoc. Monthly, vol. 19, pp. 219, June 1937.
1805. ———. The Hydrates of Natural Gas, Pure Gas, and Synthetic Gas Mixtures. Proc. Am. Gas Assoc., Nat. Gas Sec., 1940, pp. 122-128; Gas, vol. 10, June 1940, pp. 28-30.
1806. ———. Gas-Hydrate Composition and Equilibrium Data. Proc. Am. Gas Assoc., Nat. Gas Dept., 1940, pp. 49-56.
1807. ———. Mines Bureau Gas Hydrates Study Résumé. Oil World, vol. 32, September 1939, pp. 13-18.
1808. ———. Relation of Gas Hydrates to Pipeline Operation. Gas, May 1940, pp. 104-107.
1809. ———. Water Content of Compressed Gases. Proc. Am. Gas Assoc., Nat. Gas Sec., 1941, pp. 143-153; Am. Gas Jour., vol. 155, October 1941, pp. 61-64, 70.
1810. DE CARLO, J. A., AND CORGAN, J. A. Coke-Oven Gas in Town Use in the United States. Coke and Gas, vol. 13, 1951, pp. 10-14.
1812. DEHUFF, G. L. JR. Global Aspects of Manganese-Ore Supply. Cong. geol. intern. 20th Session, Mexico City, 1950, pp. 147-154 (In English).
1813. ———. Manganese. Sec. in Metal, Mineral, and Mineral Fuel Review for 1958, State Geologists Jour., vol. 11, No. 2, October 1959, pp. 20-27.
1814. ———. Manganese in 1952. Eng. Min. Jour., vol. 165, No. 2, February 1953, pp. 99-100.
———. See item 3647.
1815. DELAMATER, G. R. Coal-Washing Efficiency. 8th Internat. Cong. Appl. Chem., vol. 10, 1912, pp. 129-137.
DELANO, P. H. See items 1256, 1296.
1816. DELANO, P. H., AND WENER, P. J. Alkali Resistance of Portland Cement—Effect of Sodium Sulfate. Ind. Eng. Chem., vol. 33, 1941, pp. 692-693.
DELLEDONNE, C. See item 7445.
DEMETER, J. J. See item 6680.
DEMOREST, D. J. See item 7548.
DEMPSEY, J. B. See item 7711.
DENEKAS, M. O. See items 1883, 1866.
1817. DENEKAS, M. O., CARLSON, F. T., MOORE, J. W., AND DOBB, C. G. Materials Adsorbed at Crude Petroleum-Water Interfaces. Isolation and Analysis of Normal Paraffins of High Molecular Weight. Ind. Eng. Chem., vol. 43, 1951, p. 1165.
DENILAUBER, A. J. See item 4180.
DENNISTON, D. W., JR. See items 4197, 4198.
1818. DENNISTON, DONALD W., JR., OXENDINE, JAMES R., KNAPSCHAEFER, DALE, H., KARLOVITZ, BELA, AND BURGESS, DAVID S. Applications of the Electronic Probe to the Study of Turbulent Flames. Jour. App. Phys., vol. 28, No. 1, January 1957, pp. 70-75.
1820. DENNY, E. H. Employer and Employee Responsibility. Min. Cong. Jour., vol. 18, July 1932, pp. 15-16.
1821. ———. Federal Coal-Mine Inspection Work. Proc. Illinois Min. Inst., 1942, pp. 155-158.
1822. ———. Film Saves Lives. Coal Age, vol. 42, No. 5, May 1937, p. 234.
1823. ———. First-Aid Work and the Colorado Fuel and Iron Company. Blast, Apr. 15, 1932.

1824. DENNY, E. H. Hazards From Gases in Metal Mines and Protection Against Them. AIME Tech. Pub. 984, Min. Technol., November 1938, 10 pp.; Trans. AIME, Rocky Mountain Fund vol. on Metal Mining, vol. 141, 1940, pp. 230-239.
1825. ———. Lessons To Be Learned from Recent Mine Explosions. Trans. Mine Inspectors Inst. America, 1944, p. 71.
1826. ———. Metal Mines Need Good Ventilation. Nat. Safety News, vol. 20, No. 4, October 1920, pp. 83, 85, 146.
1827. ———. Methods of Mine Inspection. Proc. Coal Min. Inst. America, 1942, pp. 7-14.
1828. ———. Presentation of Joseph A. Holmes Certificate to the Shamrock Coal Co., of Erie, Colo. Proc. Rocky Mt. Coal Min. Inst., 1930, pp. 120-121.
1829. ———. Safety Report and Recommendations, Safety Committee, Colorado Min. Assoc. Min. Cong. Jour., vol. 17, March 1931, pp. 160-161.
1830. ———. Some Notes on Colorado Metal-Mine Fatalities, 1935. Colorado Min. Assoc. and Am. Min. Cong. Year Book, 1935-36, pp. 20-23.
1831. ———. Suggested Methods to Reduce Mine Accidents From the Viewpoint of the Safety Engineer. Proc. Mine Insp. Inst. America, June-July 1936, pp. 77-81; rev. in Coal Age, vol. 4, August 1936, p. 341.
1832. ———. The Work of the United States Bureau of Mines. Proc. Rocky Mt. Coal Min. Inst., 1934, pp. 61-67, rev. in Coal Age, vol. 30, April 1934, pp. 133-134.
1833. ———. Disc. of papers by Chief Inspectors of State Mining Departments on Recent Coal-Mine Explosions. Proc. 35th Conv., Mine Insp. Inst. America, 1944, pp. 71-74.
1834. ———. Disc. of "Systematic Timbering, What It Means, Who is Primarily Responsible for Its Enforcement, and the Object to be Attained" by S. S. Temple. Proc. Rocky Mt. Coal Min. Inst., 1930, p. 47.
———. See item 5383.
1835. DENNY, E. H., AND ARNOLD, G. O. Federal Coal-Mine Inspection and Explosives Control Acts. Proc. Rocky Mt. Coal Min. Inst., 1942, pp. 16-20.
1836. DENNY, E. H., AND KINTZ, G. M. Industrial Safety Training at a Mining School. Min. Cong. Jour., vol. 16, 1930, pp. 800-808.
DENNY, M. V. See item 2060.
1837. DENUES, A. R. T. Applied Aspects of Flame and Flame Velocities. Am. Gas Assoc. Monthly, vol. 20, 1938, p. 194; Flames and Flame Velocities, Applied Aspects. Proc. Am. Gas Assoc., vol. 20, 1938, p. 617.
1838. ———. Fire-Retardant Treatments of Liquid-Oxygen Explosives. AIME Tech. Pub. 1199, 1940, 6 pp.
1840. ———. Liquid-Oxygen Explosives. Jour. Chem. Ed., vol. 18, 1941, p. 45.
1841. ———. Note on the Theory of Displacements of Mixtures Giving Maximum Flame Velocities. Jour. Am. Chem. Soc., vol. 63, 1941, pp. 1757-1758.
———. See items 2088, 2089.
1842. DENUES, A. R. T. AND HUFF, W. J. Applications of Fire Retardants to a Liquid-Oxygen Explosive. Am. Chem. Soc., news ed., vol. 18, 1940, pp. 1114-1117.
1843. ———. Combustion of Methane; Displacement of Mixtures Giving Maximum Flame Velocities. Jour. Am. Chem. Soc., vol. 62, 1942, pp. 3045-3047.
1844. ———. Recording the Combustion Characteristics of Gases. Gas, vol. 15, 1939, No. 7, pp. 31-32; Proc. Am. Gas Assoc., 1939, p. 601.
1845. DENVER FIRE CLAY CO., AND WILSON, HEWITT. Ceramic Kilns. Denver Fire Clay Co. Bull. 361, 1938, 57 pp.
1846. DE POLO, TABER. Feldspar. Eng. Min. Jour., vol. 160, No. 2, February 1959, p. 143.
1847. ———. Feldspar. Sec. in Metal, Mineral, and Mineral Fuel Review for 1958, State Geologists Jour., vol. 11, No. 2, October 1959, p. 19.
1848. DERY, ROBERT J. Development of a Combustion Wave in a Flowing Gas. 3d Symposium on Combustion and Flame and Explosion Phenomena. Univ. of Wisconsin, Madison, Wis., Sept. 7-11, 1948, pub. 1949, pp. 235-245.
DE RYCKER, HENRY. See item 5835.
DESMOND, J. S. See item 5361a.
1849. DEVANEY, F. D. Differential Grinding as an Aid in Ore Concentration. Eng. Min. Jour., vol. 139, November 1938, pp. 43-45.
———. See items 1242, 1287-1301.
1850. DEVANEY, FRED D., AND AMBLE, CHARLES W., JR. Reaction of Metallic Iron and Copper Sulfate in the Flotation of Sphalerite. Canadian Min. Jour., vol. 51, No. 4, Jan. 24, 1930, pp. 82-86.
1851. DEVANEY, FRED D., AND CLEMMER, J. B. Concentrating Manganese Ores by Flotation. U.S. Patent 1,591,326, Mar. 13, 1934.
1852. ———. Flotation of Carbonate and Oxide Manganese Ores. Am. Mangan. Prod. Assoc., 1929, pp. 81-88; Eng. Min. Jour., vol. 128, Sept. 29, 1920, pp. 506-508.
1853. DEVANEY, FRED D., AND COGHILL, W. H. Relation of Ball Wear to Power in Grinding. Eng. Min. Jour., vol. 138, July 1937, pp. 337-340.
1854. ———. Subsieve Size Distribution Follows Same Law as for Coarser Particles. An Analysis of Droplets in Emulsion and Particles in Crushed Ores. Rock Products, vol. 40, No. 10, October 1937, pp. 58-59.
1855. ———. Use of the Coercimeter in Grinding Tests. AIME, Tech. Pub. 862, Min. Technol., 1938, 13 pp.; Trans. AIME, Rocky Mountain Fund vol. on Milling Methods, vol. 134, 1939, pp. 282-294.
1856. DEVANEY, FRED D., AND COOKE, S. R. B. Laboratory Concentration of Missouri Iron Ores of Iron Mountain and Pilot Knob. Bull. Missouri Sch. of Mines, Tech. Ser., vol. 11, No. 3, 1930, 293 pp.
1857. DEVINE, J. M. The Determination of Molecular Weights of Non-Volatile Petroleum Oils. Univ. of Oklahoma Bull., vol. 9, Nov. 15, 1929, p. 131.
———. See item 4605.
1858. DEVINE, J. M., AND LANE, F. W. The Use of the Carius Method for the Determination of Sulphur in the Less Volatile Petroleum Oils. Jour. Am. Chem. Soc., vol. 50, June 5, 1928, pp. 1707-1710.
1859. DEVINE, J. M., WILHELM, C. J., AND SCHMIDT, LUDWIG. Comparative Resistance of Certain Commercial Ferrous Materials to Corrosion by Gaseous Hydrogen Sulphide. AIME, Tech. Pub. 531, 1934, 16 pp.
DE VITRY, P. See item 760.
1860. DEWEES, E. J. Safety Begins in the Home. Safety pamph. printed by the Empire Company, 1929.
———. See items 1382, 1385, 7376-7379.
1861. DEWEES, E. J., RALL, C. G., HUTOHISON, VERN, AND TALLAFERRO, D. B. Supplement to API Bibliography on Secondary Recovery. Jan. 1, 1950-June 30, 1957. API Div. of Production, Dallas, Tex., 1958, 69 pp.
1862. DICE, C. M., OLDRIGHT, G. L., AND BRIGHTON, T. B. Drosses in Lead Smelters. Trans. AIME; Metallurgy of Lead and Zinc, vol. 121, 1936, pp. 127-159.

- DIECKMAN, G. P. See item 7272.
1863. DIEDERICHSEN, J., AND WOLFHARD, H. G. Spectrographic Examination of Gaseous Flames at High Pressure. Proc. Royal Soc. (London), vol. 236, A, 1956, pp. 89-103.
- DIETER, W. E. See items 3262, 3728.
1864. DIETRICH, W. F. Market Trends for Mineral Fillers in Western States. Min. Eng., vol. 11, No. 8, August 1959, pp. 813-817.
1865. ———. Mica in 1952. Eng. Min. Jour., vol. 165, No. 2, February 1953, pp. 112, 113.
1866. DIETRICH, W. F., AND THOMSON, R. D. Mica, Non-metallics Review and Forecast. Eng. Min. Jour., vol. 156, No. 2, February 1955, pp. 117.
1867. DIETRICH, W. F., AND WAGGAMAN, W. H. Sheet-Mica Industry. Min. Cong. Jour., vol. 40, No. 10, October 1954, pp. 59-62, 77.
1868. DIETRICH, W. R., AND IRVING, D. H. Refractory Materials Program of the Federal Bureau of Mines. Ceramics Bull., vol. 38, No. 12, December 1959, pp. 710-711.
- DILLING, E. D. See items 1899, 3485-3487, 4299, 7181, 7197.
1869. DIMITROFF, ATHANAS Z. Electric Shock and Equivalent Grounding Devices. Rocky Mountain Coal Min. Inst., June 24, 1957.
1871. DINNEEN, G. U. Shale Oil—What Is It? Petrol. Refiner, vol. 33, No. 2, 1954, pp. 113-116.
- . See items 352, 4001, 7360.
1872. DINNEEN, G. U., ALLBRIGHT, C. S., AND BALL, JOHN S. Comparison of Brazilian and Colorado Shale Oils. Chem. Eng. Data Ser., vol. 2, No. 1, 1957, pp. 91-95.
1873. DINNEEN, G. U., AND BICKEL, W. D. Gum Formation in Shale-Oil Naphtha. Ind. Eng. Chem., vol. 43, 1951, pp. 1804-1807.
1874. DINNEEN, G. U., BAILEY, C. W., SMITH, J. R., AND BALL, JOHN S. Shale-Oil Naphthas, Analysis of Small Samples by the Silica Gel Adsorption Method. Ind. Eng. Chem. (anal. ed.), vol. 19, 1947, pp. 992-998.
1875. DINNEEN, G. U., BALL, J. S., AND THORNE, H. M. Composition of Crude Shale Oils. Ind. Eng. Chem., vol. 44, No. 11, November 1952, pp. 2632-2635.
1876. DINNEEN, G. U., COOK, G. L., AND JENSEN, H. B. Estimation of Types of Nitrogen Compounds in Shale-Oil Gas Oil. Anal. Chem., vol. 30, No. 12, December 1958, pp. 2020-2030.
1877. DINNEEN, G. U., SMITH, J. R., AND BAILEY, C. W. High-Temperature Shale Oil, Product Composition. Ind. Eng. Chem., vol. 44, November 1952, pp. 2647-2650.
1878. DINNEEN, G. U., SMITH, J. R., AND BALL, JOHN S. Olefins in Naphthas. Petrol. Ref., vol. 29, No. 5, 1950, pp. 129-134.
1879. DINNEEN, G. U., SMITH, J. R., VAN METER, R. A., ALLBRIGHT, C. S., AND ANTHONY, W. R. Application of Separation Techniques to a High-Bolling Shale-Oil Distillate. Anal. Chem., vol. 27, 1955, pp. 185-190.
1880. DINNEEN, G. U., THOMPSON, C. J., SMITH, J. R., AND BALL, J. S. Adsorption Analysis by Displacement Techniques Applied to Shale-Oil Distillates. Anal. Chem., vol. 22, 1950, pp. 871-876.
- DOAN, DONALD J. See item 1394.
- DOBYNS, R. P. See items 316, 3040.
1881. DOBYNS, R. P., BURCHETT, C. T., JR., MCBRIDE, D. S., AND DARNER, R. R. Activities in K.M.A. Field, Wichita and Archer Counties, Tex. Petrol. Eng., vol. 27, Nos. 4-7, 9, 1955; April, pp. B90-B96; May, pp. B64, B67-B68; June, pp. B87-B88; July, pp. B64, B66, B68-70; September, pp. B99-B102, B104.
- Dodd, C. G. See items 1817, 8138.
1882. DODD, C. G., DAVIS, J. W., AND PIDGEON, F. D. Measurement of Specific Areas of Nonporous Powders by a Pressure-Dedline Liquid-Permeability Method. Jour. Phys. and Coll. Chem., vol. 55, No. 5, May 1951, pp. 684-688.
1883. DODD, C. G., MOORE, J. W., AND DENEKAS, M. O. Metalliferous Substances Adsorbed at Crude Petroleum-Water Interfaces. Ind. Eng. Chem., vol. 44, No. 11, November 1952, pp. 2585-2590.
- Dodd, C. J. See item 3286.
1884. DODGE, C. H. Benefits Derived From Proper Use and Follow-Up of Safety Inspection Reports. Proc. Kentucky Min. Inst., 1948-50, pp. 17-23.
1885. ———. Mine Safety—What to Do—What Not to Do. Part 1—Organization. Mechanization, vol. 15, No. 4, April 1951, pp. 130-131, 134-135.
1886. ———. Systematic Follow-Up the Key to Safety Inspection Gains. Coal Age, vol. 54, February 1949, p. 114.
1887. DOERNER, H. A. Can U.S. Use Its Low-Grade Domestic Chrome Ore? Eng. Min. Jour., vol. 153, No. 8, August 1952, pp. 90-92.
1888. ———. Domestic Chrome and Manganese Ores Can Be Upgraded and Utilized. Jour. Metals, vol. 5, No. 1, January 1953, pp. 39-40; Min. Eng., vol. 5, No. 4, April 1953, pp. 385-386.
1889. ———. Electrothermic Magnesium. Bureau of Mines Met. Div., Conf. Met. Res., Salt Lake City, Utah, May 1940, pp. 12-18.
1890. ———. Extraction of Vanadium From Vanadiferous Sandstones. Chem. Met. Eng., vol. 31, Sept. 15, 1924, p. 429.
1891. ———. Floating and Leaching Copper-Molybdenum Ores. Eng. Min. Jour.-Press, vol. 119, June 6, 1925, pp. 925, 926.
1892. ———. Possibilities of Production of Radium and Vanadium From Carnotite. Ind. Eng. Chem., vol. 22, February 1930, p. 185.
1893. ———. Reduction of Zinc Ores by Natural Gas. Trans. AIME, Metallurgy of Lead and Zinc, vol. 121, 1930, pp. 636-677.
1894. ———. Research Activities of the Bureau of Mines in the Northwest States. Metal Prog., vol. 58, September 1950, p. 380.
- . See items 379, 1242.
1896. DOERNER, H. A., AND HOSKINS, W. M. Coprecipitation of Radium and Barium Sulphates. Jour. Am. Chem. Soc., vol. 47, March, 1925, pp. 602-675.
1898. DOERNER, H. A., AND OTHERS. A Study of Methods for Producing Chromate Salts From Domestic Ores. Eng. Min. Jour., vol. 141, May 1940, pp. 50, 51, 57; Chem. Met. Eng., vol. 47, 1940, pp. 688-689.
1899. DOERNER, H. A., HOLBROOK, W. F., DILLING, E. D., AND HARRIS, D. L. Magnesium From Magnesite. Chem. Age, vol. 47, Dec. 26, 1942, pp. 588-589.
1900. DOHERTY, J. D. Coal for Byproduct Coking. Coal and Coke Research, Koppers Co., Inc., 1950, pp. 44-59.
1901. ———. Immediate Development of Synthetics Urged. Oil Gas Jour., vol. 47, Nov. 11, 1948, pp. 207, 419; Heat. and Vent., vol. 45, December 1948, pp. 109-110; Midwest Eng., vol. 1, February 1949, p. 23; Min. Eng., vol. 1, No. 4, April 1949 (Trans. AIME, vol. 184, 1949, AIME Tech. Pub. 2562), pp. 110-124.
1902. ———. Synthetic Liquid Fuels From Coal. Min. Eng., vol. 1, No. 4, sec. 3, April 1949, pp. 116-124; Oil Gas Jour., vol. 47, No. 28, Nov. 11, 1948, p. 288; Heat. and Vent., vol. 45, No. 12, December 1948, pp. 109-110; Midwest Eng., vol. 1, No. 6, February 1949, p. 23; Trans. AIME, Tech. Pub. 2562, vol. 184, 1949, pp. 716-724.

1903. DOHERTY, J. D. Synthetic Oil From Coal. Colorado Sch. Mines Quart., vol. 45, No. 2B, April 1950, pp. 77-95.
— See items 1158, 1523.
1904. DOLMAN, PHIL. R. Wedge-Saw Carriage Assembly Eliminates Operation Hazards. Eng. Min. Jour., vol. 146, June 1945, pp. 94-95.
DONALDSON, V. V. See items 147, 3489, 6592.
DONALDSON, W. F. Item 6537.
DONATH, E. F. See items 1523, 7299, 7580-7583.
DONOVAN, J. T. See items 2842, 5629, 6398.
1905. DONOVAN, J. T., JOSEPHANS, M., AND MARKOVITS, J. A. High-Pressure Vessels in Coal-Hydrogenation Service. Trans. ASME, vol. 72, No. 4, May 1950, pp. 357-363.
1906. DONOVAN, J. T., LEONARD, B. H., AND MARKOVITS, J. A. Development of High-Pressure Injection Pumps for Hydrogenation Service. Mech. Eng., vol. 74, 1952, pp. 36-37.
1907. —. Separation of Arsenic and Phosphorus From Vanadium. Ind. Eng. Chem., vol. 15, October 1923, p. 1014.
1908. DONOVAN, R. E. Hoist for Men and Supplies at Arizona Copper Mine. Eng. Min. Jour., vol. 113, 1922, p. 56.
1909. DORCUS, R. M., AND WEIGAND, G. E. The Effect of Exhaust Gas on the Performance in Certain Psychological Tests. Jour. Gen. Psychol., vol. 2, No. 1, January 1929.
DORA, M. E. See item 1630.
DORSH, JOHN B. See item 868.
1910. DOTSON, JAMES A., HOLDEN, JOHN H., AND KOEHLER, W. A. Rate of Steam-Carbon Reaction by a Falling-Particle Method. Ind. Eng. Chem., vol. 49, January 1957, pp. 148-154.
1911. DOTSON, J. M., HOLDEN, J. H., SEIBERT, C. B., SIMONS, H. P., AND SCHMIDT, L. D. New Method Measures Solid-Gas Reaction in High-Solid Flow. Chem. Eng., vol. 56, October 1949, pp. 128-130.
1912. DOTTERWEICH, FRANK H., AND HUFF, W. J. Colloidal Properties of Iron Oxide in Hydrogen Sulfide Removal. Proc. Am. Gas Assoc., vol. 20, 1938, pp. 699-717; Gas Age, vol. 82, No. 9, 1938, pp. 43-44, 54, 56-58.
1913. —. A Note on the Wetting of Iron Oxide Samples Before Testing. Proc. Am. Gas Assoc., 1939, p. 601.
1914. DOUDA, H. W. Effect of Wet Grinding, Screening, and Electrolytes and Dextrines on Clays of Low Plasticity and Strength. Jour. Am. Ceram. Soc., vol. 3, 1920, pp. 885-892.
1915. —. Permeability of Refractories to Air. Jour. Am. Ceram. Soc., vol. 3, 1920.
— See items 7036, 7037.
1917. DOUGHERTY, R. W. Coal Pipeline Transportation. Proc. 4th Conf., Coal Research, Inc., Centralia, Wash., Dec. 7 and 8, 1951, pp. 27-32.
DOUSLIN, D. R. See items 3013, 3849, 4302, 4303, 5014, 5015, 7050, 7051, 7063, 8096, 8097.
1918. DOUSLIN, DONALD R., AND HUFFMAN, HUGH M. The Heat Capacities, Heats of Transition, Heats of Fusion, and Entropies of Cyclopentane, Methylcyclopentane, and Methylcyclohexane. Jour. Am. Chem. Soc., vol. 68, 1946, pp. 73-76.
1919. —. Low-Temperature Thermal Data on the Five Isomeric Hexanes. Jour. Am. Chem. Soc., vol. 68, No. 9, September 1946, pp. 1704-1708.
1920. DOUSLIN, D. R., MOORE, R. T., AND WASHINGTON, GUY. The Pressure-Volume-Temperature Properties of Perfluorocyclobutane: Equations of State, Virial Coefficients and Intermolecular Potential Energy Functions. Jour. Phys. Chem., vol. 63, No. 11, 1959, p. 1959.
1921. DOUSLIN, D. R., MOORE, R. T., DAWSON, J. P., AND WASHINGTON, GUY. Pressure-Volume-Temperature Properties of Fluorobenzene. Jour. Am. Chem. Soc., vol. 80, 1958, pp. 2031-2038.
1922. DOVIDAS, C. M. Recovering Mining Machinery From a Squeezed Area. Min. Cong. Jour., vol. 31, August 1945, pp. 23-25.
1923. DOW, D. B. Determining the Gasoline Content. Oil and Gas Journal, vol. 10, No. 18, 1921, pp. 74, 70, 80.
1924. —. Hazards Involved in Transportation of Natural Gas Gasoline. Bull. Assoc. Nat. Gasoline Mfrs., Tulsa, Okla., 1922, 10 pp.
1925. —. Methods for Recovering Gasoline From Uncondensed Still Vapors. Nat. Petrol. News, vol. 14, No. 22, 1922, pp. 28-31; No. 23, pp. 87, 89, 90, 93.
1926. DOW, D. B., AND REISTLE, C. E. Absorption of Natural Gas and Air in Crude Petroleum. Min. and Met., vol. 5, July 1924, pp. 330, 337.
DOWD, J. J. See item 7410.
DOYLE, AIDA M. See item 5503.
1927. DOYLE, HENRY N., AND FLINN, ROBERT H. Silicosis Research. Min. Cong. Jour., April 1957, 4 pp.
1928. DOYLE, HENRY N., FLINN, ROBERT H., AND DREFFSEN, W. C. A Review of the Pneumoconiosis Problem in the United States. Jour. Am. Ind. Hygiene Assoc., vol. 10, No. 4, August 1958, pp. 317-323.
DRAPEAU, J. E. See items 5113, 5122.
DREESSEN, W. C. See item 1928.
1929. DREESSEN, W. C., EDWARDS, THOMAS, RINEHART, W. H., PAGE, R. T., WEBSTER, S. H., ARMSTRONG, D. W., AND SAYERS, R. R. The Control of the Lead Hazard in the Storage-Battery Industry. U.S. Pub. Health Bull. 262, 1941, pp. 1-82, 87-110, 123-134.
DRESSLER, R. G. See items 489, 490, 3680, 3693, 4239, 6736, 7300, 7630, 8266.
1930. DRESSLER, R. G., AND BRACHER, J. R. The Bureau of Mines Gas-Synthesis Demonstration Plant at Louisiana, Mo. ASME Paper 50-17ET-9; Mech. Eng., vol. 72, No. 12, December 1950, p. 1007.
1931. —. Method of Utilizing Aqueous-Organic Chemical Wastes From the Fischer-Tropsch Process. U.S. Patent 2,574,469, Nov. 13, 1951.
1932. DRIESSEN, M. G. Cyclone Washers for Fine Coal. Mechanization, vol. 10, No. 10, October 1940, pp. 72-73.
1933. —. Diesel Locomotives for Dutch Coal Mines. Gas Oil Power (ann. tech. rev. no.), 1946, p. 416.
1934. —. New Type of Diesel Locomotive for Use in Dutch State Coal Mines. Trans. Inst. Min. Eng., vol. 105, part 4, January 1946, pp. 160-181; disc., pp. 182-180, 189.
1935. DRIESSEN, M. G., AND CRINEA, H. E. Cyclone Thickener Applications in the Coal Industry. Min. Eng., Trans. AIME, vol. 187, January 1950, pp. 102-107; disc., November 1950, pp. 1158-1159.
DUBS, T. A. See item 7258.
DUBASHI, A. See item 4531.
1936. DUDLEY, H. C., SAYERS, R. R., AND NEAL, P. A. Bromide Content of Certain Foodstuffs Fumigated With Methyl Bromide. Proc. Pacific Sci. Cong., Pacific Sci. Assoc., vol. 6, 1944, pp. 150-163.
DULL, M. F. See item 8411.
DUNCAN, W. E. See item 7192.

1937. DUNKLEY, W. A. Activity and Capacity of Oxides. Report of Purification Subcommittee, Am. Gas Assoc. Tech. Sec., vol. 3, 1921, pp. 198-208.
1938. ———. Bituminous Coal as Generator Fuel. Am. Gas Jour., vol. 116, 1922, pp. 249-252, 260-261.
1939. ———. Bituminous Water-Gas Fuel Economy. Gas Age-Record, vol. 50, 1922, pp. 794-797.
1940. ———. Sulphur Compounds Other Than H₂S as a Factor Governing Selection of Gas Coals. Am. Gas Assoc. Monthly, vol. 5, 1923, pp. 251-254.
1941. ———. Water-Gas From Bituminous Coal. Jour. Am. Gas Light, vol. 150, 1920, pp. 435-437.
———. See items 5800, 5801.
1942. DUNKLEY, W. A., AND BARNES, C. E. Sulphur Removal From Gas. Gas Record, vol. 17, No. 6, 1920, pp. 33-36, 43-46.
1943. DUNKLEY, W. A., AND LEITCH, R. D. Conditions Affecting Activity of Iron Oxide in Gas Purification. Am. Gas Assoc. Monthly, vol. 4, 1922, pp. 699-704.
1944. ———. Steaming Stop-End Horizontal Retorts. Gas Age-Record, vol. 49, 1922, pp. 70-74.
1945. DUNLOP, J. P. Nonferrous Secondary Metals Recovered in the U.S. Min. and Met., vol. 9, March 1928, p. 119; AIME Tech. Pub. 07. Inst. Metals Div., 1928, p. 660; Iron Age, vol. 121, Mar. 8, 1928, pp. 657-658.
1946. DUNNING, H. N. Adsorption of Polyoxyethylated Detergents on Quartz. Ind. Eng. Chem., Chemical and Engineering Data Series, vol. 2, No. 1, 1957, pp. 88-91.
1947. ———. The Interfacial Activity of Mesoporphyrin IX and Some Derivatives. Jour. Colloid Sci., vol. 8, 1953, pp. 279-287.
1948. ———. The Protective Action of Crude Petroleum for Metal-Porphyrin Complexes Exposed to Gamma Radiation. Jour. Am. Chem. Soc., vol. 70, Oct. 5, 1957, pp. 5320-5321.
———. See items 1170, 1987, 1988, 2562, 3648, 3649, 3838, 3839, 4043-4048, 5371, 5395, 6557, 7358, 8121-8123, 8171, 8172.
1949. DUNNING, H. N., AND CARLTON, JACK K. Paper Chromatography of a Petroleum Porphyrin Aggregate. Anal. Chem., vol. 28, September 1956, pp. 1362-1366.
1950. DUNNING, H. N., AND EAKIN, J. L. Foaming Agents Are Low-Cost Treatment for Tired Gassers. Oil Gas Jour., vol. 57, No. 6, Feb. 2, 1959, pp. 108-110.
1951. DUNNING, H. N., AND HSIAO, L. Laboratory Experiments With Detergents as Waterflooding Additives. Pennsylvania State Univ., Mineral Industries Exp. Sta., Bull. 62, 1953, pp. 1-7.
1952. DUNNING, H. N., AND JOHANSEN, R. T. Combustion Thermostat and Elevating Platform for the Surface-Tension Balance. Rev. Sci. Instr., vol. 24, December 1953, p. 1154.
1953. ———. Measurement of Crude Oil Wetting Tendencies. Petrol. Eng., vol. 30, No. 7, July 1958, pp. B26-B27.
1954. DUNNING, HERBERT N. AND LIEN, ARTHUR P. (Assigned to Standard Oil Co. (Indiana)). Regeneration of Absorbents for Hydrogen Sulfide and Manufacture of Sulfur. U.S. Patent 2,772,045, Dec. 4, 1956.
1955. DUNNING, H. N., AND MOORE, J. W. Decomposition of Metal-Porphyrin Complexes by Gamma Irradiation. Ind. Eng. Chem., vol. 51, No. 2, February 1959, pp. 161-164.
1956. ———. Porphyrin Research and the Origin of Petroleum. Bull. Am. Assoc. Petrol. Geol., vol. 41, 1957, pp. 2403-2412.
1957. ———. Propane Removes Asphalts From Crudes. Petrol. Refiner, vol. 30, May 1957, pp. 247-250.
1958. DUNNING, H. N., AND RABON, NANCY. Porphyrin-Metal Complexes in Petroleum Stocks. Ind. Eng. Chem., vol. 48, May 1956, pp. 951-955.
1959. DUNNING, H. N., EAKIN, J. L., REINHARDT, W. N., AND WALKER, C. J. "Bubble Baths" Clean Gas Wells. Petrol. Week., October 1959, p. 30.
1960. ———. Foaming Agents: Cure For Water-Logged Gas Wells. Petrol. Eng., vol. 31, No. 12, 1959, pp. B28-B33.
1961. ———. Foaming Agents for Removal of Liquids From Gas Wells. Am. Gas Assoc., Annual Convention, OS-59-1, 1959, 14 pp.
1962. DUNNING, H. N., HSIAO, L., AND JOHANSEN, R. T. Displacement of Petroleum From Sand by Detergent Solutions. Petrol. Eng. vol. 26, No. 1 January 1954, pp. 882-890; Oil Gas Jour., vol. 53, No. 15, Aug. 10, 1954, pp. 139-140, 142-144, 146-147.
1963. ———. Variable in Centrifugal Testing of Petroleum Displacement by Detergent Solutions. Ind. Eng. Chem., vol. 47, October 1955, pp. 2147-2152.
1964. DUNNING, H. N., JOHANSEN, R. T., WALKER, C. J., POWELL, J. P., AND WATKINS, H. W. Have You Tried a Water-Flood Detergent? World Oil, September 1956, 6 pp.
1965. ———. What Detergent Injection Did at Grover Waterflood. Oil Gas Jour., vol. 54, No. 64, August 1955, pp. 115-119.
1966. DUNNING, H. N., MOORE, J. W., AND DENEKAS, M. O. Interfacial Activities and Porphyrin Contents of Petroleum Extracts. Ind. Eng. Chem., vol. 45, August 1953, pp. 1759-1765.
1967. DUNNING, H. N., MOORE, J. W., AND MYERS, A. T. Properties of Porphyrins in Petroleum. Ind. Eng. Chem., vol. 46, 1954, pp. 2000-2007.
1968. DUNNING, H. N., SMITH, R. W., AND WALKER, C. J. Nongraphical Solution of Back-Pressure Tests on Gas Wells. Petrol. Eng., vol. 30, January 1958, pp. 177-180.
1969. DUPUY, LEON W. Drilling and Sampling Unconsolidated Materials. Trans. AIME, vol. 184, May 1940, pp. 125-130; Min. Eng., vol. 1, May 1940, pp. 125-130.
1971. ———. Fundamental Factors in Exploratory Diamond Drilling. AIME Tech. Pub. 2241, Min. Technol., vol. 11, September 1947, 21 pp.; suppl. Min. Technol., vol. 12, March 1948, 2 pp.; Trans. AIME, vol. 172, 1947, pp. 151-172.
1972. ———. How to Construct a Suspension-Bridge Tailing Flume. Eng. Min. Jour., vol. 128, No. 5, August 3, 1929, pp. 174-176.
1973. ———. An Improved Drill Bit. Min. Jour. (Arizona), vol. 24, No. 12, November 15, 1940, p. 4.
1974. ———. New Method for Sampling With Rock Drills. Min. Jour. (Arizona), vol. 24, No. 8, September 15, 1940, pp. 5-7.
1975. ———. Power-Driven Auger Drill Cuts Exploration Costs. Eng. Min. Jour., vol. 145, December 1944, pp. 98-99.
1976. ———. Sampling the Picacho With Drill and Vacuum Collector. Eng. Min. Jour., vol. 141, No. 1, January 1940, pp. 29-31.
1977. ———. Disc. of "Drilling Blast Holes at the Holden Mine With Percussion Drills and Tungsten Carbide Bits," by E. R. Youngberg. Min. Eng., vol. 1, No. 11, November 1940, p. 402; AIME Trans., vol. 184, p. 402.

1978. DUPUY, LEON W., CALHOUN, W. A., AND RASMUSSEN, R. T. C. New Methods Cut Costs for Chamberlain (S. Dak.) Manganese. *Eng. Min. Jour.*, vol. 147, April 1946, pp. 93-96.
DURIHAM, H. G. *See* item 2096.
1979. DUSCHAK, L. H. Extraction of Calcium Oxide From Calcined Magnesite. *Chem. Met. Eng.*, vol. 23, 1929, p. 628.
1980. DUSCHAK, L. H., AND SCHUETTE, O. N. Condensing Quicksilver From Furnace Gases. *Min. Sci. Press*, vol. 117, 1918, pp. 315-323.
1981. DUSCHAK, L. H., AND SPENCER, S. O. An Improved Mercury Still. *Jour. Phys. Chem.*, vol. 21, 1917, pp. 311-313.
DUTTON, O. B. *See* items 1717, 6579.
1983. DUVALL, W. I. Rock Breakage by Explosives. *Cleveland Engineering*, vol. 47, No. 42, Dec. 2, 1954; *Missouri Sch. Mines and Met. Ann. Symposium on Mining Research, 1956*, *Bull. Tech. Ser. No. 94*, 1957, 150 pp.
1984. ———. Strain-Wave Shapes in Rock Near Explosions. *Geophysics*, vol. 18, No. 2, April 1953, pp. 310-323.
- EAKIN, J. L. *See* items 1950, 1959-1961, 6196, 6557.
EARHART, R. F. *See* item 8465.
EARLE, JAMES S. *See* item 6064.
1993. EAST, J. H., JR. The Advantages and Disadvantages of Using Diesel Equipment in Underground Workings. *Trans. 35th Nat. Safety Cong.*, 1947, vol. 16, pp. 9-15.
1994. ———. Diesel-Powered Equipment Underground. *Min. Cong. Jour.*, vol. 39, No. 1, January 1953, pp. 22-24.
1995. ———. European Coal Situation in 1945. *Mines Mag.*, vol. 36, No. 4, April 1946, pp. 142-147.
1996. ———. Explosives in the Mining Industry. *Colorado Sch. Mines Quart.*, vol. 45, No. 2B, April 1950, pp. 341-357.
1997. ———. High Lights of Yakobi Island, Alaska. *Mines Mag. (Colorado)*, vol. 23, 1943, pp. 63-65.
1998. ———. Italy's Coal Quandary—Dire Need, Diverse Efforts. *For. Com. Weekly*, vol. 20, No. 7, Feb. 15, 1947, pp. 6-7, 25, 26.
1999. ———. Underground Diesel Locomotives—Experience. *Proc. Coal Min. Inst. America*, 1951, p. 69.
2000. ———. The Use of Diesel Locomotives Underground. *Trans. Mine Insp. Inst. America*, 1947, p. 107.
———. *See* items 3385-3387.
2001. EAST, J. H., JR., AND MAIZE, E. A. Diesel Power for Underground Storage. *AIME Tech. Pub. 2384*, *Min. Technol.*, vol. 12, No. 4, 1948, 8 pp.; *Trans. AIME*, vol. 181, 1948, pp. 274-281.
2002. EAST, J. H., JR., AND ROSE, O. K. Oil-Shale Mining Program Does Two Jobs. *Min. Eng.*, vol. 7, No. 10, October 1955, pp. 925-929.
2003. EAST, J. H., JR., RUSSELL, H. W., AND BOLMER, R. L. How a Coal Outcrop Fire Was Controlled. *Min. Cong. Jour.*, vol. 36, January 1950, pp. 24-25.
2004. EASTMAN, E. D. Equilibria in Systems Iron-Carbon-Oxygen and Iron-Hydrogen-Oxygen and Free Energies of Oxides of Iron. *Jour. Am. Chem. Soc.*, vol. 44, 1922, pp. 975-998.
EASTMAN, J. B. *See* item 8620.
2005. EATHORNE, WILLIAM. Fold-Away Conversion Ambulance Unit Applicable to Standard Two-Door Sedan. *Min. Cong. Jour.*, vol. 31, March 1945, pp. 45-47.
1985. DUVALL, W. I., AND ATCHISON, T. C. Rock Breakage With Confined Concentrated Charges. *Rev. Ind. Minér.*, vol. 39, No. 8; and *Journ. Méc. des Roches*, June 1958; *Min. Eng.*, vol. 214, June 1959, pp. 605-611.
DUVALL, WILBUR I. *See* items 310, 3056, 5772.
1987. DWIGGINS, C. W., JR., AND DUNNING, H. N. Determination of Nickel in Oils by X-Ray Spectrography. *Anal. Chem.*, vol. 31, 1959, pp. 1040-1042.
1988. ———. Quantitative Determination of Nickel in Oils by X-Ray Spectrography. *Anal. Chem.*, vol. 31, No. 6, June 1959, pp. 1040-1042.
1989. DWIGGINS, C. W., JR., LINDLEY, J. R., AND ECCLESTON, B. H. A Cooled Sample Holder For the X-Ray Spectrograph. *Anal. Chem.*, vol. 31, November 1959, p. 1928.
1990. DYER, E. J. Cracking of Oils. *Min. and Sci. Press*, vol. 110, 1915, p. 717.
1991. DYKEMA, W. P., AND NEAL, R. O. Determination of Gasoline in Gas. *Chem. Eng.*, vol. 27, 1919, pp. 5-7.

E

2008. ———. Lecture on the "Magic of Fire." *Proc. Coal Min. Inst. America*, 1954, p. 135.
2007. ———. Sinking and Equipping the New Leonard Shaft at Mount Hope Mine (N.J.). *Min. Cong. Jour.*, vol. 31, October 1945, pp. 42-45; November 1945, pp. 35-37.
———. *See* item 8130.
EATON, MARGARET. *See* items 3870, 5837-5839.
EATON, W. L. *See* item 298.
2008. EBBLEY, NORMAN, JR. Bureau Inspects Old Shafts With Portable Headframe; Leadville Area in Colorado. *Eng. and Min. Jour.*, vol. 148, June 1947, pp. 93-94.
2009. ———. Oil Seepages on the Alaskan Arctic Slope. *Min. and Met.*, vol. 25, September 1944, pp. 415-419.
ECCLESTON, B. H. *See* items 1349, 1989, 7040, 8289, 8290.
2010. ECCLESTON, B. H., AND WEISMAN, M. L. Total Sulfur in Hydrocarbons by Monochromatic X-Ray Absorption. *Anal. Chem.*, vol. 28, April 1956, pp. 545-548; *Norelco Reporter*, vol. 5, March-April 1958, pp. 49-51.
2011. ECCLESTON, B. H., COLEMAN, H. J., AND ADAMS, N. G. The Purification and Some Physical Properties of Cyclooctatetraene. *Jour. Am. Chem. Soc.*, vol. 72, September 1950, pp. 3860-3870.
2012. ECCLESTON, B. H., MORRISON, MARILYN, AND SMITH, H. M. Elemental Sulfur in Crude Oil. *Anal. Chem.*, vol. 24, No. 11, November 1952, pp. 1745-1748.
ECCLESTON, B. L. *See* item 8139.
ECK, L. T. *See* item 7455.
ECKARD, W. E. *See* items 8287, 8288.
2013. ECKARD, W. W., AND MASON, J. A. Electrolytic Model Studies as Applied to Waterflooding a Shestring Sand. *Pennsylvania State College Mineral Industries Exp. Sta. Bull.* 54, 1950, pp. 57-93.
2014. ECKEL, EDWIN B., MEYER, H. M., AND MOSIER, McHENRY. Statements on Mineral Resources. Mercury. Chap. in *Mineral Position of the United States. Mineral Resources Economic Subcommittee, Public Lands Committee, 80th Cong., 1st sess., 1947*, pp. 202-205.
ECKARD, J. W. *See* item 6742.

2015. ECKERT, J. W., AND RATWAY, JOHN. New Developments in Anthracite Gasification. Am. Gas Assoc. Operating Sec. Production Conf., 1959.
2016. ECKERT, J. W., AND TENNEY, R. F. Thermal Stabilization of Anthracite by Calcination. ASME Paper 57-FU-3, October 1957, 14 pp.
2017. ECKERT, J. W., RUEHL, R. C., AND TENNEY, R. F. The Suitability of Anthracite for Blast-Furnace and Cupola Operation. Proc. Anthracite Conf., Pennsylvania State University, Oct. 18-19, 1956, 28 pp.
ECKHOUSE, R. H. See items 2919, 8507.
EDDY, W. H. See items 2070, 2892.
EDBURN, P. W. See items 1696, 7089.
2018. EDBURN, P. W., SCHMIDT, L. D., MCGEE, J. P., AND BONAR, F. Pulverized Fuel Process for Synthesis Gas Experimental Unit Operation on Entrained Powder. Joint Symposium on Production of Synthesis Gas, Am. Chem. Soc., New York, N.Y., September 15-19, 1947, pp. 123-136.
2019. EDMISTER, W. C. Compressor and Expander Design. Chem. Eng. Prog., vol. 47, No. 4, April 1951, pp. 191-198.
2020. ———. Packed Columns for Multicomponent Absorbers and Fractionators. Petrol. Eng., vol. 23, January 1951, pp. C25-C28.
2021. EDMISTER, W. C., PERRY, H., COREY, R. C., AND ELLIOTT, M. A. Thermodynamics and Gasification of Coal With Oxygen and Steam. Trans. ASME, vol. 74, No. 5, July 1952, pp. 621-636.
EDWARDS, H. E. See item 891.
EDWARDS, T. I. See items 7264, 7265.
EDWARDS, THOMAS. See item 1929.
EGLESON, G. C. See items 6739, 8116.
2022. EGLESON, G. C., SIMONS, H. P., KANE, L. J., AND SANDS, A. E. Moving Coke-Bed Gas Filter for Dust Removal. Ind. Eng. Chem., vol. 46, No. 6, June 1954, pp. 1157-1162.
EGLOFF, G. See items 6573-6575, 6578, 6581.
EHLERS, M. G. See item 6719.
2027. EILERTS, C. K. Apparatus for Testing Oil-Well Effluents. U.S. Patent reissue 23,583, Nov. 18, 1952 (reissue of U.S. Patent 2,588,369).
2028. ———. Data Obtained in Bureau of Mines Flow Tests on Gas Condensate Wells. Proc. Am. Gas Assoc., Nat. Gas Dept., 1944, p. 29.
2029. ———. Gas-Condensate-Reservoir Engineering. I. The Reserve Fluid, Its Composition and Phase Behavior. Oil Gas Jour., vol. 45, No. 39, Feb. 1, 1947, pp. 63-68.
2030. ———. Gas-Condensate-Reservoir Engineering. II. Fluid Properties and Flow Relationships in the Reservoir. Oil Gas Jour., vol. 45, No. 40, 1947, pp. 78-84.
2031. ———. Gas-Condensate-Reservoir Engineering. III. Equilibrium Factors, Hydrates, and Corrosion. Oil Gas Jour., vol. 45, No. 41, 1947, pp. 100-103.
2032. ———. Identification of Corrosion Products, Using Measurements of Film Thickness and Mass. Ind. Eng. Chem., vol. 41, August 1949, pp. 1716-1717.
2033. ———. Laboratory Determination of Relative Corrosion Resistance of Metals Considered for Gas-Condensate Well Service. Bull. Nat. Assoc. Chem. Eng., January 1950.
2034. ———. Sodium Chromate Effective in Combating Corrosion in Gas Wells. Oil Gas Jour., vol. 45, No. 2, May 18, 1946, pp. 124-127, 133.
2035. ———. Disc. of "The Effect of Sampling Rate on the Accuracy of Liquid: Gas Ratio Data Obtained With Bureau of Mines Portable Test Equipment," by G. G. Brown. Proc. 23d Ann. Conven., Nat. Gas Assoc., 1944, p. 53.
2036. ———. Disc. of "Equilibrium Constants for Hydrocarbon Absorption Oil," by C. E. Webber. Trans. AIME, Petrol. Div., vol. 142, 1941, pp. 203-204.
2037. ———. Disc. of "Some Factors Influencing Distillate Recovery at Extremely High Pressures," by L. S. Reid. AIME, Tech. Pub. 1259, Petrol. Technol., November 1940, pp. 7-9.
———. See item 597.
2038. EILERTS, C. K., AND OTHERS. Portable Equipment for Measuring Properties of Fluids From Gas-Condensate Wells. Am. Gas. Assoc. Monthly, vol. 26, April 1944, pp. 148-152.
2039. EILERTS, C. K., BARR, V. L., HAMONTRE, H. O., BORROWSKI, F. P., AND MULLENS, N. B. Windowed Cell for Observing Hydrocarbon Phases Under Variable Pressures. Proc. Am. Gas Assoc., Nat. Gas Dept., 1946, pp. 81-91; Development of Windowed Cell. Am. Gas Assoc. Monthly, vol. 28, No. 10, October 1946, pp. 435-440.
2040. EILERTS, C. K., BARR, V. L., MULLENS, N. B., AND HANNA, BETTY. Phase Relations of a Gas-Condensate Fluid at Low Temperatures, Including the Critical State. Petrol. Eng., vol. 19, No. 5, 1948, pp. 154-180.
2041. EILERTS, C. K., CARLSON, H. A., AND MULLENS, N. B. Effect of Added Nitrogen on the Compressibility of Natural Gas. I. World Oil, vol. 128, June 1948, pp. 129-132, 134, 138, 140; July 1948, pp. 144-160.
2042. ———. Effect of Added Nitrogen on the Compressibility of Natural Gas. II. Compressibility of Nitrogen and Natural-Gas Manufacture. World Oil, vol. 128, No. 3, 1948, pp. 144-146, 149-150, 152, 154, 157-158, 160.
2043. EILERTS, C. K., CARLSON, H. A., SMITH, R. V., ARCHER, F. G., AND BARR, V. L. Sodium Chromate as an Inhibitor of Corrosion in Gas-Condensate Wells. Proc. Nat. Gasoline Assoc. America, 1945-46, pp. 51-60; Oil Weekly, part 1, Sept. 30, 1946, pp. 17-22; part 2, Oct. 7, 1946, pp. 30-34; Corrosion, vol. 3, No. 2, February 1947, pp. 73-74.
2044. EILERTS, C. K., GREENE, FAYE, ARCHER, F. G., HANNA, BETTY, AND BURMAN, L. M. Alloying Steels for Corrosion Resistance to Gas-Condensate Fluids. Corrosion, vol. 4, No. 4, 1948, pp. 245-263; No. 6, pp. 321-356.
2045. EILERTS, C. K., SMITH, R. V., AND BARR, V. L. Measuring Distribution of Liquids in Flow String of Gas Condensate Well; Mobile Laboratory Measures Water in Condensate as Part of Corrosion Study. Oil Gas Jour., vol. 44, Dec. 15, 1945, pp. 91-94, 97.
2046. EILERTS, C. K., SMITH, R. V., ARCHER, F. G., BURMAN, L. M., GREENE, FAYE, AND HAMONTRE, H. C. Field and Laboratory Tests of Sodium Chromates for Controlling Corrosion in Gas Condensate Wells. Part 1. The Problem and a Résumé of Results Obtained. World Oil, vol. 129, July 1, 1949, pp. 142-150.
2047. ———. Field and Laboratory Tests of Sodium Chromates and Alkalies for Controlling Corrosion in Condensate Wells. Part 2. Theoretical Considerations. World Oil, vol. 129, August 1949, pp. 172-182.
2048. ———. Field and Laboratory Tests of Sodium Chromates for Controlling Corrosion in Gas Condensate Wells. Part 3. Maximum and Minimum Requirements of Sodium Chromate Determined. World Oil, vol. 129, September 1949, pp. 156-164, 168.
2049. ———. Field and Laboratory Tests of Sodium Chromates and Alkalies for Controlling Corrosion in Condensate Wells. Part 4. Tests of Mixtures of Sodium Chromate and Sodium Hydroxide. World Oil, vol. 129, October 1949, pp. 174-180.

2050. EILERTS, C. K., SMITH, R. V., ARCHER, F. G., BURMAN, L. M., GREEN, FAYE, AND HAMONTRE, H. C. Field and Laboratory Tests of Sodium Chromates and Alkalies for Controlling Corrosion in Condensate Wells. Part 5. Analysis of Field Test Results. *World Oil*, vol. 129, November 1949, pp. 156-170.
2051. ———. Field and Laboratory Tests of Sodium Chromates and Alkalies for Controlling Corrosion in Gas Condensate Wells. Part 6. Conclusion. *World Oil*, vol. 129, December 1949, pp. 160-168.
2052. EILERTS, C. K., SMITH, R. V., CARLSON, H. A., MOONEY, C. V., HARRIS, H. M., AND BARR, V. L. Well-head Sampling of Flowing Gas-Condensate Wells. *Proc. Nat. Gasoline Assoc. America*, 1949, pp. 125-148.
2053. EILERTSEN, DONALD E. Beryllium. *Eng. Min. Jour.*, vol. 160, No. 2, February 1959, p. 102.
2054. ———. Beryllium. Sec. in *Metal, Mineral, and Mineral Fuel Review for 1958*, State Geologists Jour., vol. 11, No. 2, October 1959, p. 33.
2055. ———. Gallium. Sec. in *Metal, Mineral, and Mineral Fuel Review for 1958*, State Geologists Jour., vol. 11, No. 2, October 1959, p. 20.
2056. EILERTSEN, D. E., AND LAMB, F. D. A Comprehensive Report of Exploration by the Bureau of Mines for Thorium and Radioactive Black Mineral Deposits. U.S. AEC, RM-3140, 1956, 46 pp.
EISNER, ABNER. See items 2183, 2545-2557, 3691.
2057. EISNER, ABNER, FEIN, M. L., AND FISHER, C. H. Neutral Oils From Coal Hydrogenation. Action of Sulfuric Acid. *Ind. Eng. Chem.*, vol. 32, 1940, pp. 1614-1621.
2058. EISNER, ABNER, SPRUNK, GEORGE, CLARKE, LOYAL, FISHER, C. H., AND STORCH, H. H. Hydrogenation of Typical North American Splint Coals. *Ind. Eng. Chem., ind. ed.*, vol. 32, 1940, pp. 73-78.
2059. EITEL, W. Synthesis of Fluosilicates of the Mica and Amphibole Group. *Proc. Internat. Symposium on Reactivity of Solids*, Gothenburg, Sweden, 1952, pp. 333-345.
EITEL, WILHELM. See items 1356, 1363.
2060. EITEL, WILHELM, HATCH, R. A., AND DENNY, M. V. Synthetic Mica Investigations. II. The Role of Fluorides in Mica Batch Reactions. *Jour. Am. Ceram. Soc.*, vol. 36, No. 10, 1953, pp. 341-348.
2061. ELDER, JAMES L. Experiment in Underground Gasification of Coal, Gorgas, Ala. *Proc. Kentucky Min. Inst.*, 1946-48, pp. 121-135.
2062. ———. Lignite in the North Central States. *Adolf Freese Announcer of Sci. Equipment*, No. 59, 1959, pp. 4-8; *Burrell Announcer of Sci. Equipment*, No. 59, 1959, pp. 4-8; *Mine & Smelter Announcer of Sci. Equipment*, No. 59, 1959, pp. 4-8; *Palo Announcer of Sci. Equipment*, No. 59, 1959, pp. 4-8; *Phipps & Bird, Bird Notes on Sci. Equipment*, No. 59, 1959, pp. 4-8; *Walker Announcer on Sci. Equipment*, No. 59, pp. 4-8.
2063. ———. Résumé of the Second Underground Gasification Experiment at Gorgas, Ala. *Proc. Rocky Mt. Coal Min. Inst.*, Salt Lake City, Utah, 1951.
2064. ———. Underground Gasification of Coal. *Bull. Am. Ceram. Soc.*, vol. 31, 1952, p. 44.
———. See items 2499, 2500-2503, 2505, 6898, 6901-6903.
2065. ELDER, J. L., AND FIES, M. H. Underground Gasification of Coal—the Gorgas Experiments. *Consulting Eng.*, vol. 2, No. 6, August 1953, pp. 22-25, 62-64.
2066. ———. Untertagsvergasung von Kohle. *Brennstoff-Chem.*, vol. 34, No. 13/14, July 15, 1953, pp. 196-199.
2067. ELDER, J. L., AND GRAHAM, H. G. Experiment on Underground Gasification of Coal. *Mines Mag.*, vol. 40, No. 10, 1950, pp. 107-111, 117, 134.
2068. ELDER, J. L., AND WILKINS, E. T. The Underground Gasification of Coal in the U.S.A. An Outline of the Bureau of Mines' Experiments at Gorgas, Alabama. *Jour. Inst. Fuel*, vol. 24, No. 137, May 1951, pp. 94-99; *Engineering*, vol. 171, No. 4448, Apr. 27, 1951, pp. 513-515; *Iron and Coal Trades Rev.*, vol. 162, No. 4333, Apr. 27, 1951, pp. 981-982.
2069. ELDER, J. L., AND WILLIAMS, E. T. Underground Gasification of Coal in U.S.A. *Jour. Inst. Fuel*, vol. 24, 1952, No. 138, pp. 228-232.
2070. ELDER, J. L., GRAHAM, H. G., CAPP, J. P., AND EDDY, W. H. The Underground Gasification of Coal. *Military Eng.*, vol. 43, No. 206, November-December 1951, pp. 398-400.
2071. ELDER, J. L., SCHMIDT, L. D., STEINER, W. A., AND DAVIS, J. D. Spontaneous Heating Tendencies of Coals. *Am. Gas Assoc. Monthly*, vol. 27, 1945, pp. 411-414.
ELDRIDGE, C. H. See item 234.
2072. ELDRIDGE, C. H., AND ANDERSON, R. J. Effect of Heat Treatment on Release of Stress in Bronze Castings. *Trans. AIME*, 1923, 13 pp.
2073. ELGIN, R. A. How Leadville Tunnel Is Driven Through Bad Ground. *Eng. Min. Jour.*, vol. 140, March 1945, pp. 96-100.
2074. ELLIOTT, M. A. Combustion of Diesel Fuel. *Quart. Trans. Soc. Auto. Eng.*, vol. 3, 1949, pp. 489-512; *Jour. Soc. Auto. Eng.*, vol. 56, January 1948, pp. 24-25.
2075. ———. Combustion of Diesel Fuel Oils. *ASME, Spec. Pub.*, 1948, pp. 57-120.
2076. ———. Considerations in the Use of Diesel Engines Underground. *Proc. West Virginia Min. Inst.*, 1948, pp. 116-141.
2077. ———. Conversion of Measurements of Power Output of Diesel Engines to Standard Atmospheric Conditions. *Trans. ASME*, vol. 68, 1946, pp. 525-530.
2078. ———. Diesel Ignition Hazard Tests for Mine Locomotives. *Diesel Power*, vol. 27, No. 3, March 1948, pp. 46-49.
2079. ———. Gasification. Chap. in *Research and Progress in the Production and Use of Coal*. Nat. Res. Planning Board, Tech. Paper 4, 1941, pp. 33-44.
2080. ———. A Rational Basis for Correlating Data on Compression-Ignition Engine Performance at Different Intake and Exhaust Conditions. *Jour. Soc. Auto. Eng.*, vol. 49, 1941, pp. 532T-543T.
2081. ———. Testing Diesel Engines for Use Underground. *Proc. Coal Min. Inst.*, 1951, pp. 40-69.
2082. ———. Underground Gasification. *Marks' Mech. Eng. Handbook*, 5th ed., 1951 McGraw Hill Book Co., New York, N.Y., pp. 791-792.
———. See items 178, 546, 1699, 2021, 3755, 4022, 4078, 6113, 7513.
2083. ELLIOTT, M. A., AND BERGER, L. B. Combustion in Diesel Engines—Effect of Adding Gaseous Combustibles to the Intake Air. *Ind. Eng. Chem.*, vol. 34, No. 9, September 1942, pp. 1065-1071.
2084. ———. Studying Combustion in Diesel Engines by Addition of Gaseous Combustibles to Intake. *Ind. Eng. Chem.*, vol. 34, 1942, pp. 1065-1071.
2085. ELLIOTT, M. A., AND DAVIS, R. F. Composition of Diesel Exhaust Gas. *Auto. Ind.*, vol. 101, Dec. 1, 1949, pp. 28-29; *Quart. Trans. Soc. Auto. Eng.*, July 1950, pp. 330-340.

2086. ELLIOTT, M. A., AND DAVIS, R. F. Dual Fuel Combustion in Diesel Engines. *Ind. Eng. Chem.*, vol. 43, December 1951, pp. 2854-2864.
2087. ———. Sodium Sulfite Removes Aldehydes From Exhaust. *Jour. Soc. Auto. Eng.*, vol. 58, June 1950, p. 73.
2088. ELLIOTT, M. A., AND DENUES, A. R. T. Sec. 7. Fuels and Furnaces. *Gaseous Fuels, Marks' Mech. Eng. Handbook*, McGraw-Hill Book Co., New York, N.Y., 1951, pp. 785-791.
2089. ———. *Gaseous Fuels, Marks' Mech. Eng. Handbook*, McGraw-Hill Book Co., New York, N.Y., 4th ed., 1941, pp. 819-825.
2090. ELLIOTT, M. A., CLARK, E. L., AND STORCH, H. H. Production of Hydrocarbon Synthesis Gas From Coal. U.S. Patent 2,634,286, Apr. 7, 1953.
2091. ELLIOTT, M. A., COREY, R. C., AND PERRY, H. Vortex Reactor for Gnsification of Coal. U.S. Patent 2,703,275, Mar. 1, 1955.
2092. ELLIOTT, M. A., DAVIS, R. F., AND FRIEDEL, R. A. Products of Combustion From Diesel Fuel. *Proc. 3d World Petrol. Cong.*, The Hague, sec. VII, June 1951, pp. 280-297.
2093. ELLIOTT, M. A., KANDINER, H. J., KALLENBERGER, R. H., HITESHUTE, R. W., AND STORCH, H. H. Hydrogenation of Bituminous Coal in an Experimental Flow Plant. *Ind. Eng. Chem.*, vol. 42, 1950, pp. 83-91.
2094. ELLIOTT, M. A., PERRY, H., JONAKIN, J., COREY, R. C., AND KIBELLAR, M. L. Symposium: Gnsification of Solid Fuels. Gasification of Pulverized Coal With Oxygen and Steam in a Vortex Reactor. *Ind. Eng. Chem.*, vol. 44, No. 5, 1952, pp. 1074-1082.
2095. ELLIOTT, W. C., JR. Chemical Characteristics of Water From Canyon, Strawn, and Wolfcamp Formations in Scurry, Kent, Borden, and Howard Counties, Tex. *Petrol. Eng.*, vol. 25, No. 6, June 1953, pp. B77-B80, B83, B85, B88-B89.
———. *See items 1381, 2644.*
- ELLIS, C. F. *See item 4619.*
2096. ELLIS, C. F., AND DURHAM, H. G. Modified Nesbitt Absorption Bottle. *Anal. Chem.*, vol. 25, September 1953, p. 1430.
2097. ELLMAN, R. C. Current Problems in Preparing Lignite Coals. *Proc. Coal Conf.*, Missouri Sch. Mines and Met., Dec. 3 and 4, 1953, Univ. of Missouri Sch. Mines and Metallurgy Tech. Series 85, December 1954, pp. 70-86.
2098. EMERY, A. H. The U.S. Bureau of Mines and Sigma Gamma Epsilon. "Compass," vol. 12, January 1932, pp. 65-69.
2099. ———. Mineral Fillers for Sheet Asphalt Paving Mixtures. *AIME, Year Book*, 1934, p. 62; *Min. and Met.*, February 1933.
2100. ———. Work of the U.S. Bureau of Mines on the Manganiferous Iron Ores of Minnesota. *Min. Cong. Jour.*, vol. 15, October 1929, pp. 706-707.
———. *See items 1395, 2403-2412, 2636, 5983.*
- EMMETT, P. H. *See items 161-163, 972.*
2101. EMMETT, P. H., AND ANDERSON, R. B. The Adsorption of Water Vapor on Carbon Black. *Jour. Am. Chem. Soc.*, vol. 67, 1945, pp. 1492-1494.
2102. EMMONS, H. W., COUBINS, E. W., POWELL, H. N., WOLFHARD, H. G., MARBLE, F. E., AND WAY, S. Panel on Fire Systems and Models. 1st Fire Res. Correlation Conf., Washington, D.C. Nov. 8-9, 1956, Nat. Res. Council Pub., No. 475, 1957, p. 279.
2103. ENOEL, A. L., AND SHELTON, S. M. Experiments in Manganese Ore Dressing. *Min. Jour. (Arizona)*, vol. 23, Feb. 20, 1940, pp. 2-3.
- ENOEL, G. T. *See item 3168.*
- ENNS, J. H. *See item 6123.*
2104. ENOS, G. M. Acid-Resisting Alloys for Use in Mine Water. *Coal Age*, vol. 23, 1923, pp. 665-668.
2105. ———. Problem of Corrosion in Coal-Mining Industry. *Proc. Eng. Soc. West. Pennsylvania*, vol. 39, 1923, pp. 300-327; *disc.*, pp. 328-339.
———. *See items 236, 236.*
2106. ENOS, G. M., AND ANDERSON, R. J. Coatings Formed on Corroded Metals and Alloys. *Trans. AIME*, vol. 71, 1925, pp. 784-793; *Min. and Met.*, vol. 5, December 1924, pp. 504-505.
ENTEL, J. *See item 6710.*
2107. ERGUN, S. Flow Experiments in Studying Kinetics. *Ind. Eng. Chem.*, vol. 47, No. 10, October 1955, pp. 2075-2080.
2108. ———. Graphite-Like Layers in Coals and High-Vacuum-Distillation Products. *Fuel*, vol. 37, No. 4, Oct. 1958, pp. 365-370; *Proc. 3d Conf. on Carbon*, Univ. of Buffalo, Pergamon Press, London, p. 377.
2109. ———. Kinetics of the Reaction of Carbon Dioxide With Carbon. *Jour. Phys. Chem.*, vol. 60, 1956, pp. 480-483.
———. *See items 4986, 8258.*
2110. ERGUN, S., AND TIENSUU, V. H. Alicyclic Structures in Coals. *Nature*, vol. 183, June 13, 1959, pp. 1668-1670.
2111. ———. Determination of X-Ray Absorption Coefficients of Inhomogeneous Carbonaceous Materials. *Jour. Appl. Phys.*, vol. 29, No. 6, June 1958, pp. 940-949; *Proc. 3d Conf. on Carbon*, Univ. of Buffalo, Pergamon Press, London, p. 607-611.
2112. ———. Interpretation of the Intensities of X-Rays Scattered by Coals. *Fuel*, vol. 38, No. 1, January 1959, pp. 64-78.
2113. ———. Tetrahedral Structures in Amorphous Carbons. *Acta Crystallographica*, vol. 12, December 1959, pp. 1050-1051.
2114. ERGUN, S., AND WENDER, I. X-Ray Scattering Intensities of Anthraxylons Reduced With Lithium in Ethylenediamine. *Fuel*, vol. 37, No. 4, Oct. 1958, pp. 503-506.
2115. ERGUN, SABRI, MCCARTNEY, JAMES T., AND MENTSER, MORRIS. Physical and Chemical Properties of the Petrographic Components of a High Volatile Bituminous Coal. *Econ. Geol.*, vol. 54, No. 6, 1959, pp. 1068-1077.
2116. ERGUN, SABRI, MENTSER, MORRIS, AND HOWARD, H. C. A Note on the Relation of Specific Volume of Coals to Their Hydrogen and Oxygen Contents. *Fuel*, vol. 38, No. 4, October 1959, pp. 495-499.
2117. ERGUN, S., O'DONNELL, H. J., AND PARKS, B. C. Microscopic Studies of Rate of Thermal Decomposition of Petrographic Components of Coal. *Fuel*, vol. 38, No. 2, April 1959, pp. 205-210.
ERNST, F. A. *See item 2463.*
2118. ERTL, TELL. Colorado Oil Shale—Its Geology and Economic Significance. *Tulsa Geol. Soc. Digest*, vol. 23, 1955, pp. 98-108.
2119. ———. Exploring Piceance Creek Basin for Oil Shale. *Min. Eng.*, vol. 4, No. 6, June 1952, pp. 601-604.
2120. ———. Mining of Colorado Oil Shale. *Oil Gas Jour.*, vol. 47, No. 24, 1948, p. 116.
2121. ———. Oil-Shale Mining. *AIME Tech. Pub.* 2359, *Petrol. Technol.*, vol. 11, May 1948, 8 pp.
2122. ———. Oil Shale Vast Reservoir of Energy. *Min. Cong. Jour.*, vol. 40, No. 6, June 1954, pp. 74-76; No. 7, July 1954, pp. 24-27.

2123. ERTL, TELL. Sodium Bicarbonate From Colorado Oil Shale. *Am. Mineral.*, vol. 32, October 1947, pp. 117-120.
2124. ERTL, TELL, AND BURGH, E. E. Observations of the Relation of Drilling Speed to the Size of Cuttings. *AIME Tech. Pub.* 2490, *Min. Technol.*, vol. 12, July 1948, 4 pp.
2125. ERVIN, GUY, JR. Process for Separating Potassium Sulfate From Alkaline Carbonates. U.S. Patent 2,424,975, Aug. 5, 1947.
———. See items 6668, 6669.
2126. ERVIN, GUY, JR., AND MCCARTHY, CHARLES E. Separation of Sulfate and Chloride From Alkali Carbonate Brines. *Ind. Eng. Chem.*, vol. 30, 1944, pp. 415-420.
2127. ERVIN, GUY, JR., GIORGI, A. L., AND MCCARTHY, C. E. The System Potassium Carbonate-Sodium Carbonate-Water at 100° and 150° C. *Jour. Am. Chem. Soc.*, vol. 66, 1944.
2128. ESPACH, R. H. Manufacture of Paraffin Wax From Petroleum. *Petrol. World*, vol. 33, April 1936, pp. 85-97.
2129. ———. Sources of Hydrogen Sulfide in Wyoming; Sulfur Symposium. *Ind. Eng. Chem.*, vol. 42, November 1950, pp. 2235-2237.
2130. ———. Unusual Reservoir Oils in the Elk Basin and Rangely Fields. *API, Drilling and Production Practice*, 1951, pp. 224-233.
———. See items 346, 6706.
2131. ESPACH, R. H., AND BLADE, O. C. Metallic Gaskets for Glass-to-Metal Joints. *Refiner and Nat. Gasoline Mfr.*, vol. 14, October 1935, p. 494.
2132. ESPACH, RALPH H., AND BIGGS, PAUL. The Rock River Oil Field. *Wyoming Geol. Assoc. Guidebook*, 1953, pp. 161-165.
- FABER, J. See items 4244-4246.
- FAHEY, J. J. See item 3640.
- FAHLMAN, N. C. See item 237.
2141. FAHRENWALD, A. W. Agitation in Flotation. *Min. Sci. Press*, vol. 123, 1921, pp. 699-700.
2142. ———. Film Method of Measuring Surface and Interfacial Tension. *Jour. Opt. Soc. America*, vol. 6, 1922, pp. 722-733.
2143. ———. Flotation Practice in the Coeur d' Alene District, Idaho. *AIME Tech. Paper 1, Flotation Practice*, 1928, p. 107; *Min. Cong. Jour.*, vol. 13, September 1927, pp. 699-704.
2144. ———. Mineral Dressing. *Eng. Min. Jour.*, vol. 141, February 1940, pp. 80-83, 91.
2145. ———. Older Ore-Dressing Practices Restudied. *Eng. Min. Jour.*, vol. 140, February 1939, pp. 73-75.
2146. ———. Ore Dressing Benefits by Research. *Eng. Min. Jour.*, vol. 139, February 1938, pp. 60-67, 80.
2147. ———. Present Status of Differential Flotation. *Salt Lake Min. Rev.*, vol. 27, Sept. 15, 1925, pp. 9-12.
2148. ———. Present Trend in Flotation Flow-Sheets and Classification of Flotation Feed. *Salt Lake Min. Rev.*, vol. 27, Aug. 30, 1925, pp. 9-13.
2149. ———. Surface Reactions in Flotation. *Trans. AIME*, vol. 70, 1924, pp. 647-736; *Min. and Met.*, vol. 5, February 1924, pp. 89-91.
2150. ———. Surface Tension in Flotation. *Min. Sci. Press*, vol. 123, 1921, pp. 631-632.
2151. ———. Theory of Stratification and its Application in Ore Dressing. *Min. and Met.*, vol. 7, October 1926, pp. 437-443.
2133. ESPACH, R. H., AND FRY, J. Variable Characteristics of the Oil in the Tensleep Sandstone Reservoir, Elk Basin Field, Wyoming and Montana. *AIME, Petrol. Trans.*, vol. 192, 1951, pp. 75-82.
2134. ESPACH, R. H., BLADE, O. C., AND RUE, H. P. Removal of Free Sulphur From Gasoline by Lime and Hydrogen Sulphide. *Refiner and Nat. Gas. Mfr.*, vol. 13, February 1934, pp. 65-69.
ESTEP, P. A. See items 4202-4204.
2135. EVANS, R. L., AND ST. CLAIR, H. W. Carbonation of Aqueous Suspensions of Magnesium Oxide, Magnesium Hydroxide, etc. *Ind. Eng. Chem.*, vol. 41, December 1949, pp. 2814-2817.
EVANS, T. E. See items 456, 4492, 4493, 4508.
2136. EVANS, W. J., PASQUEN, JOHN E., AND JOHNSON, L. H. Use of Evans Fog Gun for Multiple Shooting, Bellingham No. 1 Mine, Bellingham Coal Mines, Inc., Bellingham, Wash. *Coal Age*, vol. 52, November 1947, pp. 83-95.
2137. EVE, A. S. The Absorption by Rocks of Electromagnetic Induction and Radiation. *AIME Tech. Pub.* 316; *Trans. Met. Min. Non-Ferrous Met.*, 1930, p. 413; *Min. and Met.*, March 1930.
2138. EVE, A. S., KEYS, D. A., AND LEE, F. W. The Penetration of Rocks by Electromagnetic Waves of Audio and Radio Frequencies. *Proc. Am. Inst. Radio Eng.*, vol. 17, 1929, p. 2072; *Nature*, vol. 124, Aug. 3, 1929, pp. 178-179.
EWOLDT, H. B. See item 5478.
2139. EYRING, H., AND KASSEL, L. S. The Homogeneous Reaction Between Hydrogen and Fluorine. *Jour. Am. Chem. Soc.*, vol. 55, 1933, pp. 2796-2797.

F

———. See item 7152.

2152. FAHRENWALD, A. W., AND NEWTON, JOSEPH. Some Studies on the Gold-Dissolution Rate in Cyanide Solutions. *Eng. Min. Jour.*, vol. 140, January 1939, pp. 44-46.
2153. ———. Sphalerite, a Study; Relationship Between the State of this Mineral in Aqueous Suspension and its Flotation. *Eng. Min. Jour.*, vol. 139, June 1938, pp. 50-54; July 1938, pp. 44-47.
2154. FAHRENWALD, A. W., NEWTON, JOSEPH, AND HERKENHOFF, E. Velocity of Bit in Rock Crushing. *Eng. Min. Jour.*, vol. 138, December 1937, pp. 45-48; vol. 139, January 1938, pp. 43-46, 52.
2155. FAIRBANKS, E. E. Communication on "Lead-Silver Mineralization in the Clark Fork District, Bonner County, Idaho," by Alfred L. Anderson. *Econ. Geol.*, vol. 41, No. 5, August 1946, pp. 554-555.
2156. ———. Dumortierite From Nevada. *Am. Mineral.*, vol. 11, April 1926, pp. 93-96.
2157. ———. Photomicrography by Combined Transmitted and Reflected Light. *Econ. Geol.*, vol. 39, December 1944, pp. 590-592.
2158. ———. Zeophyllite From Idaho With Note on the Determination of Mallard's Constant. *Am. Mineral.*, vol. 11, September 1926, pp. 249-252.
FAIRBROTHER, D. M. See item 3014.
FAIRHALL, L. T. See item 7265.
2159. FAIRHALL, L. T., AND SAYERS, R. R. The Relative Toxicity of Lead and Some of Its Compounds. *U.S. Pub. Health Bull.* 253, 1940, 40 pp.
FAN, LIANG-TSENG. See item 1177.

2180. FARNSWORTH, M. Hydration of Anhydrite. *Ind. Eng. Chem.*, vol. 17, September 1925, pp. 967-970.
2181. ———. The Re-Use of Plaster of Paris Molds. *Ind. Eng. Chem.*, vol. 19, June 1927, pp. 714-717.
2182. ———. X-Ray Study of Limes Having Different Plasticities. *Ind. Eng. Chem.*, vol. 19, May 1927, pp. 583-588.
2183. FASCHINO, G. E. Inverse Feedback Stabilizes Dry Cell Current Sources. *Electronics*, vol. 32, No. 41, Oct. 9, 1959, p. 78.
- FAUST, GEORGE T. *See* item 6281.
- FAUTH, F. *See* item 3726.
2184. FAT, A. H. Accident Statistics and the Operator. *Coal Age*, vol. 12, 1917, pp. 615-616.
2185. ———. Careful Records Reduce Mine Accidents. *Coal Age*, vol. 14, 1918, pp. 503-504.
2186. ———. Coal-Mine Fatalities in 1918. *Coal Age*, vol. 15, 1919, pp. 113-114; in 1919; *Coal Age*, vol. 17, 1920, p. 78.
2187. ———. Coke-Oven Accidents, 1913. *Coll. Eng.*, vol. 35, 1915, p. 409.
2188. ———. English Language and Mine Accidents. *Coal Ind.*, vol. 2, 1919, pp. 489-492.
2189. ———. Fatalities in Coal Mines During 1918. *Coal Ind.*, vol. 3, 1920, pp. 63-64.
2190. ———. Fatalities in Coal Mines During 1919. *Coal Ind.*, vol. 3, 1920, pp. 63-64.
2191. ———. The Labor Problem in the Coal Mining Industry. *Coal Age*, vol. 10, 1919, pp. 833-834.
2192. ———. Mine Accidents: English Speaking vs. Non-English Speaking Employees. *Coal Age*, vol. 10, 1919, pp. 777-782.
2193. ———. Mine Accidents and Uniform Records. *Proc. 2d Pan American Sci. Cong. (Washington)*, vol. 8, 1917, pp. 494-515; *disc.*, pp. 515-520.
2194. ———. Record of Mine-Safety Work. *Proc. Am. Min. Cong.*, vol. 19, 1916, pp. 413-432.
2195. ———. Results Obtained by Keeping Records. *Coal Ind.*, vol. 1, 1918, p. 351.
2196. ———. The Safety Engineer and Accident Statistics. *Safety Eng.*, vol. 38, 1919, pp. 157-160.
2197. ———. Standardizing Accident Statistics. *Coal Ind.*, vol. 1, 1918, pp. 412-413.
2198. ———. Statistics and the Safety Engineer. *Coal Ind.*, vol. 2, 1919, pp. 280-282.
2199. FEEHAN, FRANCIS. Are Accidents in Mines Being Reduced? *Proc. Coal Min. Inst. America*, 1935-36, pp. 109-110.
2200. ———. Organizing the Mining Industry for Safety. *Proc. Nat. Safety Council*, 1924, p. 605; *Coal Age*, vol. 27, Feb. 12, 1925, pp. 255-257.
- FEENEY, R. G. *See* item 4833.
- FEICHT, FLORENCE L. *See* item 2646.
- FIELD, A. L. *See* items 2413, 2414.
2201. FIELD, A. L., AND ROYSTER, P. H. Slag-Viscosity Tables for Blast-Furnace Work. *Trans. AIME*, vol. 58, 1917-18, pp. 650-657.
- FEIN, M. L. *See* items 2057, 2554-2557.
2202. FEIN, M. L., EISNER, ABNER, COOPER, H. M., AND FISHER, C. H. Solubility Characteristics of Tars and Pitches Produced by Coal Hydrogenation. Determination of Insoluble Matter. *Ind. Eng. Chem.*, *anal. ed.*, vol. 11, 1939, pp. 432-438.
2203. FEISS, JULIAN W. Mining Research at Mount Weather, Va. *Min. Cong. Jour.*, vol. 37, No. 5, May 1951, pp. 49-53.
2204. ———. The U.N. Resources Conference. *Min. Eng.*, vol. 1, No. 10, October 1949, p. 50.
- FEITKNECHT, W. *See* items 4726-4729.
- FEITLER, S. *See* item 4518.
- FELDMAN, JULIAN. *See* items 187, 1089, 1090, 5535, 5866, 5867, 5932, 8256.
2205. FELDMAN, JULIAN, AND ORCHIN, M. Composition of Gasoline From Coal Hydrogenation. *Ind. Eng. Chem.*, vol. 44, No. 12, December 1952, pp. 2852-2856.
2206. ———. Method for the Separation of α -Methylnaphthalene From β -Methylnaphthalene by Azeotropic Distillation. U.S. Patent 2,581,398, Jan. 8, 1952; U.S. Patent 2,583,654, Jan. 29, 1952.
2207. ———. Purification of Phenanthrene by Azeotropic Distillation. U.S. Patent 2,590,090, Mar. 25, 1952.
2208. ———. Separation of 1- and 2-Methylnaphthalenes by Azeotropic Distillation. *Ind. Eng. Chem.*, vol. 44, No. 12, December 1952, pp. 2909-2914.
2209. FELDMAN, JULIAN, AND PANTAGES, PETER. Adapters for Introducing Hot Coils Into Distillation Flasks. *Anal. Chem.*, vol. 24, February 1952, p. 432.
2210. FELDMAN, JULIAN, PANTAGES, PETER, AND ORCHIN, MILTON. Purification and Freezing Point of Phenanthrene. *Jour. Am. Chem. Soc.*, vol. 73, September 1951, pp. 4341-4343.
2211. FELDMAN, JULIAN, MYLES, MARY, WENDEB, IRVING, AND ORCHIN, MILTON. Evaluation of Vacuum Rectification Columns. Use of Binary Mixtures. *Ind. Eng. Chem.*, vol. 41, May 1949, pp. 1032-1036.
2212. FELDMAN, JULIAN, SCARPINO, L., PANTAZOPOLOS, G., AND ORCHIN, M. Composition of Crude Oil From the Bradford Field, Pennsylvania. *Producers Monthly*, vol. 16, No. 6, April 1952, pp. 14-16.
2213. FELDMAN, JULIAN, SVEDI, A. M., CONNELL, S. A., AND ORCHIN, MILTON. Evaluation of Vacuum Rectification Columns. *Ind. Eng. Chem.*, vol. 45, No. 1, January 1953, pp. 214-215.
2214. FELEGY, E. W. Progress in a Practical Method of Voice Communication Through Soil and Strata. *Proc. Mine Inspectors Inst. America*, 1948, pp. 112-119; *Trans. Nat. Safety Cong.*, vol. 18, 1948, pp. 19-24.
2215. ———. Underground Radio Communication in Lake Superior District Mines. *Min. Eng.*, May 1953, pp. 518-552.
- . *See* items 301, 302.
2216. FELEGY, EMIL W., AND FELLMAN, CARL M. Fires and Fire Prevention Practices in Lake Superior District Iron Mines. *Proc. Lake Superior Mines Safety Council*, May 1952, pp. 33-43.
- FELLMAN, CARL M. *See* item 2199.
- FELLOWS, C. H. *See* item 6998.
2217. FENE, W. J. Explosions of Electrical Origin. *Coal Age*, vol. 43, January 1938, p. 100.
2218. ———. Novel Features in Underground Stable Add to Contentment of Horses. *Coal Age*, vol. 33, May 1928, pp. 331-332.
2219. ———. Recent Coal-Mine Explosions. Lessons to Be Learned. *Proc. 32d ann. conv., Mine Inspectors' Inst.*, 1941, pp. 65-70.
2220. ———. Safeguarding Mines From Sabotage and Subversive Activities. *Proc. 34th ann. conv., Mine Inspectors' Inst.*, 1943, pp. 32-28.
- FENE, W. J. *See* items 2636, 2637.
2221. FERGUSON, J. W. Pipeline Flow Investigations. *Am. Gas Assoc. Monthly*, vol. 33, No. 10, October 1951, pp. 16-17, 41.
2222. FERNALD, R. H. Producer Gas From Low-Grade Fuels. *Jour. Franklin Inst.*, vol. 178, 1914, pp. 161-179.
- FERRIN, C. R. *See* items 353, 3531, 3533.

- FESSLER, A. H. See item 2964.
 FESTER, J. I. See item 3840.
 FEUSTEL, H. G. See items 1776-1778.
 FICHTER, G. W. See item 3039.
 FIELD, J. H. See items 523-529, 602, 1528, 6997.
2207. FIELD, J. H., BRUNN, L. W., HAYNES, W. P., AND BENSON, H. E. Cost Estimates of Liquid-Scrubbing Processes for Removal of Sulfur Dioxide From Fine Gases. *Jour. Air Pollution Assoc.*, vol. 7, 1957, pp. 103-115; The Costs of Scrubbing Our SO₂ From Flue Gases. *Combustion*, vol. 29, 1957, pp. 61-66.
2208. FIELDNER, A. C. Accuracy and Limitations of Coal Analysis. *Chem. Eng.*, vol. 17, 1913, pp. 50-65; *Ind. Eng. Chem.*, vol. 5, 1913, pp. 270-282.
2209. ———. The Analysis and Testing of Coal in Relation to its Properties and Utilization (Melchett lecture). *Fuel*, vol. 21, 1942, pp. 118-128; vol. 22, 1943, pp. 4-12; *Jour. Inst. Fuel*, vol. 16, October 1942, pp. 4-20; *Gas Jour.*, vol. 240, 1942, p. 351; *Combustion*, vol. 14, January 1943, pp. 39-42; *Engineering*, vol. 154, 1942, pp. 351-352, 457-460, 496-500; *Iron Coal Trades Rev.*, vol. 145, Oct. 16, 1942, pp. 984-986; *Coll. Guard.*, vol. 165, Nov. 13, 1942, pp. 582-585, 631-633; *Steam Eng.*, vol. 12, December 1942, pp. 72-74.
2210. ———. American Coals and Their Technical Properties. *Brennstoff-Chem.*, vol. 12, No. 21, Nov. 1, 1931, pp. 405-409.
2211. ———. American Standard Sets up Common Language for Coal. *Ind. Stand.*, vol. 7, November 1936, pp. 273-278.
2212. ———. Application of Results of Coal Investigations. *U.S. Daily*, Mar. 29, 1932.
2213. ———. A.S.T.M. District Committee Meetings and New Members. *Bull. ASTM*, Dec. 14, 1936, p. 8.
2214. ———. Better Coke for More Pig-Iron Production. *Blast Furnace and Steel Plant*, vol. 30, 1942, pp. 1279-1281, 1306-1307.
2215. ———. The Bureau of Mines. *Chemist*, May 1932, pp. 366-380.
2216. ———. Bureau of Mines Activities in Relation to the Industrial Chemicals Industry. *Louisiana Conservation Rev.*, vol. 1, October, 1931, pp. 27, 33.
2217. ———. The Bureau of Mines and Coal Research. *Proc. Fuel Eng., Appalachian Coals, Inc.*, 10th meeting, 1937, 7 pp.
2218. ———. Bureau of Mines Interest in Byproducts of Coal. Relation of Research Work in This Field to Chemical Industry Discussed by Engineer. *U.S. Daily*, July 14, 1931.
2219. ———. Bureau of Mines Plans Varied in Scope—Safety, Better Coal Use Are Included. *Johnstown Democrat, Coal sec.*, Oct. 19, 1946, p. 11.
2220. ———. Business Activity Means Larger Opportunities for the ASTM. *Bull. ASTM*, July 31, 1936, p. 14.
2221. ———. Carbonization. *Nat. Encyclopedia* (pub. by P. F. Collier & Son), vol. 2, 1932, pp. 436-437.
2222. ———. Carbonizing Results With Cleaned Coal. *Am. Gas Jour.*, vol. 134, June, 1931, p. 80.
2223. ———. Classification of Coal. Supplement to Factors Recommended for Consideration in the Selection of Coal. *Nat. Assoc. Purchasing Agents*, May 5, 1937, 7 pp.
2224. ———. The Classification of Coal. *Trans. Fuel Conf., World Power Conf., London*, vol. 1, 1928, pp. 220-232.
2225. ———. Classification of Coals. *Keystone Coal Buyer's Manual*, 1939, pp. 17-27.
2226. ———. The Classification of North American Coals. *Proc. 2d Internat. Conf. on Bit. Coal, Carnegie Inst. Technol.*, 1928, vol. 1, 1929, pp. 632-661.
2227. ———. Coal Analysis Review of Methods Used With Particular References to Classification of Coal. *Trans. AIME, Coal Div.*, 1930, p. 585.
2228. ———. Coal Byproducts. *Nat. Encyclopedia* (pub. by P. F. Collier & Son Co.), vol. 3, 1932, p. 129.
2229. ———. Coal Classification is Boon to Industry. *Ind. Stand.*, vol. 5, April 1934, pp. 63-68.
2230. ———. Coal, Coke and Gaseous Fuels. *Annual Survey of American Chemistry. Nat. Res. Council*, vol. 2, 1927, chap. 41, pp. 313-341.
2231. ———. Coal Developments in Washington, D.C. *Proc. Fuel Eng. Conf. Coal Bureau, Upper Monongahela Valley Assoc.*, 1942, pp. 35-37.
2232. ———. The Coal Industry. Problems of Metallurgical Coke for Western Furnaces Being Solved—Byproducts in Demand. *Min. and Met.*, vol. 25, February 1944, pp. 101-102.
2233. ———. Coal Processing and Carbonization Plants Working at Capacity—Some Improvements Made. *Min. and Met.*, vol. 24, February 1943, pp. 80-81.
2234. ———. Coal Research for 1946. *Mechanization*, vol. 10, No. 2, February 1946, pp. 105, 108, 109, 100.
2235. ———. Coke Industry. *Nat. Encyclopedia* (pub. by P. F. Collier & Son), vol. 3, 1932, p. 145.
2236. ———. Composition and Classification of Domestic Coals. *Gas Age*, vol. 44, 1919, pp. 104-106.
2237. ———. Comments on Grindability Test Methods. *Proc. Fuel Eng., Appalachian Coals, Inc.*, vol. 2, May-September 1935, pp. 289-290.
2238. ———. Constitution and Classification of Coal. *Trans. ASME, Fuels & Steam Power*, vol. 50, No. 33, September-December 1928, pp. 1-9.
2239. ———. Cooperative Research in Ferrous Metallurgy and the Problem of Inclusions in Steel. *Soc. West. Pennsylvania, Feb. 23, 1927. Steel Works Sec.; Proc.*, vol. 43, June, 1927, pp. 221-242.
2240. ———. Developments in Byproduct Coke Production. *Iron Age*, July 1931, pp. 165, 207.
2241. ———. Effect of Washing Coal on Coke and Byproduct Yields. *Gas Age*, vol. 67, June 6, 1931, pp. 871-872.
2242. ———. Fourth Standard Completes Classification of Coals. *Ind. Stand.*, vol. 10, 1939, pp. 303-306; *Mississippi Valley Lumberman*, vol. 71, Jan. 19, 1940, pp. 50-52.
2243. ———. Frontiers of Fuel Technology. *Chem. Eng. News*, vol. 26, No. 23, June 7, 1948, pp. 1700-1701; disc., *Am. Gas Assoc. Monthly*, July-August 1948, p. 49; *Fuel*, vol. 28, No. 1, January 1940, pp. 19-21.
2244. ———. Fuels of Today and Tomorrow. *Annual Address by the President. ASTM. Proc. ASTM*, vol. 37, pt. 1, 1937, pp. 31-53; *Science*, vol. 86, July 2, 1937, suppl. 12; *Oil Gas Jour.*, vol. 36, July 8, 1937, p. 25; *Combustion*, vol. 9, August 1937, pp. 35-38; *Am. Gas Assoc. Monthly*, vol. 19, December 1937, p. 430; *Nat. Petrol. News*, vol. 29, July 14, 1937, p. 13; *Mech. Eng.*, vol. 60, 1938, pp. 420-421.
2245. ———. Fuel Research of the Bureau of Mines, U.S. Department of the Interior. *Jour. Inst. Fuel (England)*, vol. 18, No. 100, February 1945, p. 71.
2246. ———. Fuels. *Armed Forces Ind. College*, L 48-72, January 1948, 29 pp.
2247. ———. Gasification and Liquefaction of Coal; Introduction. *AIME, New York*, 1953, pp. iii-iv.

2248. FIELDNER, A. C. Gasoline Substitutes From Coal. *Jour. Western Soc. Eng.*, vol. 31, August 1926, pp. 306-314; *disc.*, pp. 314, 315; *Jour. Soc. Auto. Eng.*, vol. 20, 1927, pp. 98-104.
2249. ———. Government Aids to Internal Industrial Development. *Proc. 3d Ann. Tech. Seminar, Assoc. State Planning and Devel. Agencies, U.S. Dept. of Commerce*, July 26-29, 1949, March 1950, pp. 32-42.
2250. ———. Has Synthetic Motor Fuel Arrived? *Min. and Met.*, vol. 6, September 1925, pp. 456-457.
2251. ———. Henry Herman Storch. *Chem. Eng. News*, vol. 26, No. 52, Dec. 27, 1948, p. 3822.
2252. ———. Hydrogenation of Coal. *Chem. Ind.*, vol. 44, part 1, 1939, pp. 281-284.
2253. ———. Investigations of Coking Properties of Coal. *U.S. Daily*, Mar. 28, 1932, p. 8.
2254. ———. King Coal—Our State's Greatest Mineral Resource. *North Dakotan*, vol. 20, No. 9, September 1951, p. 4.
2255. ———. Low-Temperature Carbonization of Coal. *Mech. Eng.*, vol. 48, 1926, No. 11a, pp. 1217-1227; *Fuel*, vol. 5, 1926, pp. 203-214, 265-271, 294-297; *Am. Gas Jour.*, vol. 124, 1926, pp. 58-59, 179-180, 182, 426-428, 499-501, 540-542; vol. 125, pp. 119-121.
2256. ———. Low-Temperature Carbonization of Coal in Europe. *Proc. Nat. Elec. Light Assoc.*, vol. 82, 1925, pp. 1382-1396.
2257. ———. Meet Your New Secretary, Alden H. Emery. *Chem. Eng. News*, vol. 24, No. 4, Feb. 25, 1946, pp. 462-463.
2258. ———. The Metallurgical Division of the U.S. Bureau of Mines. *Min. Cong. Jour.*, vol. 14, August 1928, pp. 601, 628.
2259. ———. Mineral Technology. Solid Fuels. Chapter in *Mineral Position of the United States. National Resources Economic Subcommittee, Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess., 1947*, pp. 201-205.
2260. ———. Mines Bureau To Test U.S. Coals for Synthetic Gasoline Yield. *Nat. Petrol. News*, vol. 29, July 21, 1937, p. 15.
2261. ———. Motor Fuels of the Future. *Tech. Eng. News*, vol. 8, May 1927, pp. 161-163, 200.
2262. ———. National Fuel Reserves. *Am. Gas Assoc. Monthly*, vol. 19, 1937, p. 430.
2263. ———. The National Fuel Reserves and Future Fuel Supplies. *Am. Min. Cong., Coal Mine Mechanization Year Book, 1949*, pp. 374-390.
2264. ———. National Fuel Reserves and Their Relation to Future Supply of Liquid Fuels. *ASME Ad. Paper 46-A-83, 1946*, 15 pp.; *Mech. Eng.*, vol. 69, No. 3, March 1947, pp. 221-226, 228; *disc.*, vol. 69, No. 10, October 1947, pp. 860-867; *Ry. Age*, vol. 122, No. 2, Jan. 11, 1947, pp. 142-145.
2265. ———. The National Fuels Situation. *Ohio State Univ. Eng. Exp. Sta. News*, vol. 23, No. 1, February 1951, pp. 12-17, 38-42.
2266. ———. Nation's Reserve of Solid Fuels and Its Relation to Future Supply of Gaseous and Liquid Fuels. *Hearings before Fed. Power Commission. Gas Age*, vol. 28, No. 6, Sept. 19, 1946, pp. 37-40, 42; *Gas*, vol. 22, No. 10, October 1946, pp. 70, 72, 75, 78.
2267. ———. New Developments in Low-Temperature Carbonization. *Proc. Nat. Elec. Light Assoc.*, vol. 84, 1927, pp. 874-882, 885.
2268. ———. New Developments in the Production of Oils From Coal. *Proc. Nat. Elec. Light Assoc.*, vol. 84, 1927, p. 883.
2269. ———. New Light on the Combustibility of Coke. *Chem. Met. Eng.*, vol. 29, 1923, pp. 1052-1057.
2270. ———. Outlook for Coal in Supplying Liquid Fuels and Coke. *Coal Age*, vol. 48, February 1943, pp. 109-111.
2271. ———. Personal Observations on Fuel Research in Europe. *Ind. Eng. Chem.*, vol. 17, October 1925, pp. 1046-1050.
2272. ———. Possibilities of Liquid Fuel From Coal Described by U.S. Official. *Oil Gas Jour.*, vol. 45, Dec. 7, 1946, p. 60.
2273. ———. Practical Value of Fundamental Research on Coal. *Proc. Internat. Conf. on Bituminous Coal, Carnegie Inst. Technol., 1926*, pp. 92-101; *Coal Age*, vol. 30, Nov. 25, 1926, pp. 731-732; *Min. and Met.*, vol. 7, December 1926, p. 511.
2274. ———. Processing and Carbonization of Coal. *Min. and Met.*, vol. 20, January 1939, p. 50.
2275. ———. Processing and Carbonization of Coal. *Min. and Met.*, vol. 21, January 1940, pp. 33-35.
2276. ———. Processing and Carbonization of Coal. *Min. and Met.*, vol. 22, February 1941, pp. 114-115.
2277. ———. Processing and Carbonization of Coal. *Min. and Met.*, vol. 23, February 1942, pp. 103-104.
2278. ———. Production of Gasoline and Other Liquid Fuels From Coal and Lignite. *Development of Mineral Resources of the Public Lands of the United States. Hearings before Subcommittee of Committee on Public Lands and Surveys, U.S. Senate, 77th Cong., 2d sess., pursuant to S. R. 53, part 4, 1942*, pp. 1536-1550.
2279. ———. Production of Gasoline From Coal and Other Products. *Hearings Before Subcommittee of Committee on Mines and Mining, House of Representatives, 77th Cong., 2d sess., 1942*, pp. 2-17.
2280. ———. The Production of Liquid Fuels From Coal and Lignite. *Statement Before War Minerals Subcommittee, Committee on Public Lands and Surveys, U.S. Senate, Aug. 4, 1943, Washington, D.C.*, pp. 160-178; *Salt Lake City, Utah, Aug. 9, 1943*, pp. 318-321; *Sheridan, Wyo., Aug. 11, 1943*, pp. 420-434.
2281. ———. Progress in Mining, 1936. *Advancements in Coal Research and Technology in 1936. Min. Cong. Jour.*, vol. 23, February 1937, pp. 15-16.
2282. ———. Properties of Coal Affecting Use Value. *Proc. Fuel Eng., Appalachian Coals, Inc.*, vol. 2, May-September 1935, pp. 38-62.
2283. ———. Properties of Mineral Mining and Manufacture; Range of Investigations Undertaken by the Bureau of Mines Outlined by Chief Engineer, Experiment Stations Division. *U.S. Daily*, June 11, 1932.
2284. ———. Recent Developments in By-Products From Bituminous Coal. *Midwest Power Conf., February 1931. Mech. Eng.*, vol. 67, Apr. 11, 1931, pp. 529-534, 536.
2285. ———. Recent Developments in Carbonizing and Processing Coal in Relation to the Gas Industry. *Illinois Gas Assoc.*, March 1927; *Am. Gas Jour.*, vol. 126, June 11, 1927, pp. 576-580.
2286. ———. Recent Developments in Coal Preparation and Utilization. *Fuel*, vol. 17, 1938, pp. 272-280, 300-307.
2287. ———. Recent Developments in the Production of Motor Fuels From Coal. *Engineering*, vol. 127, Jan. 4, 1929, p. 8.
2288. ———. Recent Progress in Science in Relation to the Gas Industry. *Proc. Am. Gas Assoc.*, 1926, pp. 871-876.
2289. ———. Reduction of Minerals to Recover Potash. *U.S. Daily*, May 4, 1932.
2290. ———. Report of Committee D-3 on Gaseous Fuels. *Proc. ASTM*, vol. 38, part 1, 1938, pp. 401-402.